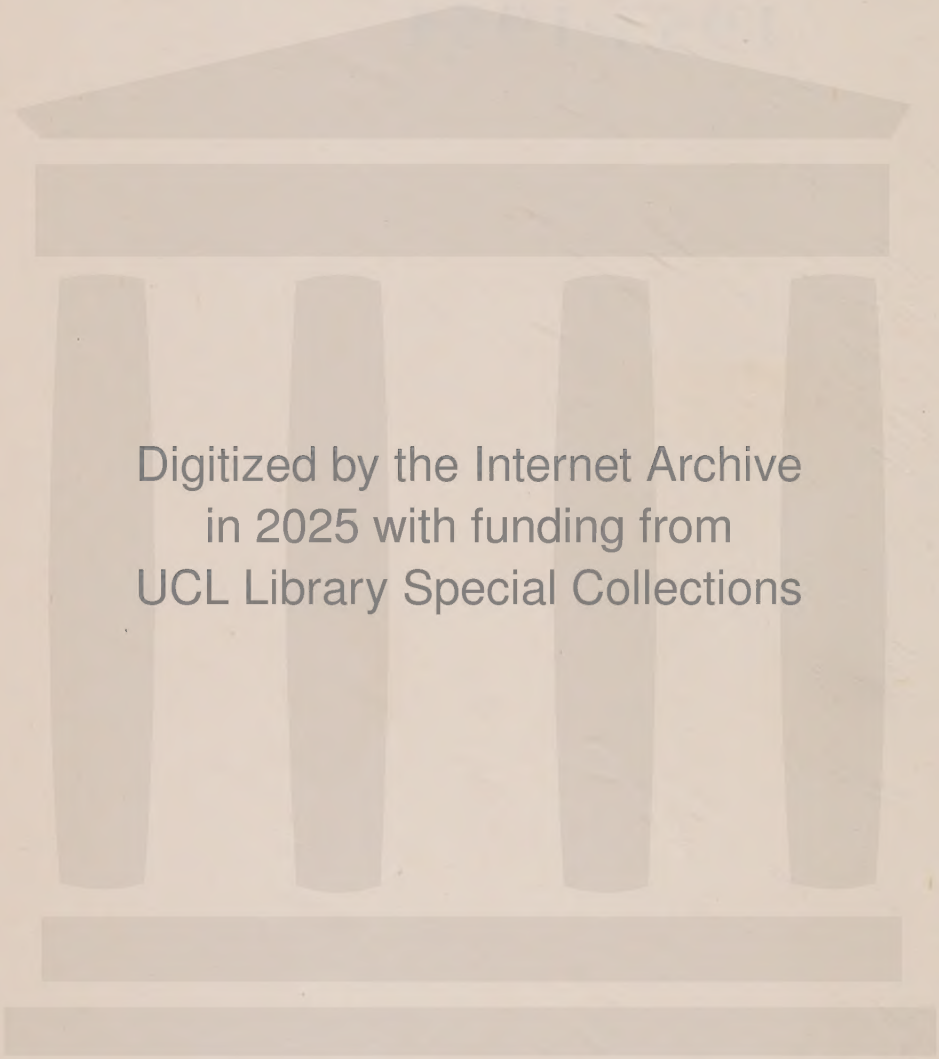
UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1953-1954

UNIVERSITY COLLEGE
LONDON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OFFICERS OF THE COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD COHEN

TREASURER

SIR FREDERICK JAMES, O.B.E.

PROVOST

B. IFOR EVANS, M.A., D.LIT.

SECRETARY

E. A. L. GUETERBOCK, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

The present quinquennium began with a period in which no expansion of staff or new development was possible owing to financial considerations. The University Grants Committee had indicated that after the expansion of the previous quinquennium it anticipated a period of consolidation, when in the opening years of the quinquennium there would be stationary conditions, followed in the middle years by some modest expansion.

The experience of the College has followed that general pattern. While in the early years of the quinquennium the departments had to reduce their requirements for new equipment to a degree that threatened in some instances the proper progress of their advanced work and research, the situation has now been so restored that in spite of the stringency it was possible to undertake a useful programme for the supply of capital equipment. Further, the institution of a modest number of new posts has been possible and some long awaited developments have been realized. Thus while the session has still been one of consolidation, it has also been one of encouraging progress.

This was made possible largely by the increase made through the Court of the University in the grant from the University Grants Committee and the Home Counties. In 1952–53 this had amounted to £815,000 and was increased in 1953–54 to £862,000. Much of this increase was absorbed by the continual upward trend in the cost of goods and services, but when these commitments had been met the improvements in the grants to scientific departments as well as a very modest beginning in the creation of reserves for future replacements of a capital nature could be contemplated. Capital expenditure out of grants from the University Grants Committee through the Court of the University and War Damage receipts of £354,371, reflect the progress made in the restoration of College buildings and in development projects. Details are given elsewhere of the support which the College has received from the great Foundations, Research Councils, and from industrial organizations for various research activities. These have continued to increase in the year under review

and the sums expended have totalled £59,080 or £9,400 more than in the previous year.

The College as a whole welcomed the opportunity of expanding the strength of the senior staff of the Faculty of Arts. Outstanding here was the conferment of the title of Professor of French History on Dr A. B. C. Cobban, at whose inaugural lecture His Excellency the French Ambassador presided. The Department of History was further strengthened by the conferment of a Readership in Modern History on J. Hurstfield, and the Department of Geography by the conferment of a Readership on Dr W. R. Mead. In the Egyptology Department, A. J. Arkell was appointed Reader in Egyptian Archaeology. Further, the department had a remarkable year in the field, for, accompanied by two of his students, Professor W. B. Emery was in Egypt during the winter months conducting excavations at Sakkara on behalf of the Egypt Exploration Society. His research resulted in the discovery of a great tomb of the First Dynasty, provisionally ascribed to the Pharoah Ka-a. It was possible to make a small, but useful increase in the part-time teaching staff of the Slade School, where the pressure of applications for student places still continues to be very heavy.

The Faculty of Arts commemorated two events which registered its contacts with humanistic studies over the last century. In April 1954 the Classical Association celebrated its Jubilee Meeting in the College, and delegates from learned societies in this and other countries recalled that it was at a meeting held at the College that the Classical Association was inaugurated. The other event has a national, or possibly an international importance that extends beyond its reference to the Faculty of Arts. On 22 September 1954 the restored Mocatta Library and the Gustave Tuck Theatre were opened in the presence of a large gathering of members of the College and of the Jewish Historical Society, members of the family of Frederick D. Mocatta who bequeathed to the College the collection of books which formed the basis of the original Mocatta Library, and members of the family of Gustave Tuck who gave to the College the original lecture theatre which bore his name. The theatre was totally destroyed by enemy action and nearly the whole of the Mocatta Library was lost. On this memorable occasion a new Gustave Tuck theatre ingeniously designed by Professor A. E. Richardson, and a Mocatta Library reconstituted chiefly by gifts secured by the Jewish Hisorical Society, were restored to the College. The theatre was dedicated by the Chief Rabbi, Dr Israel Brodie, and later in the day a meeting, presided over by the Chairman of the College Committee, was addressed by the President of the British Academy, the President of the Royal Historical Society,

the President of the Jewish Historical Society, the Chairman of the Mocatta Library Committee, the Head of the Hebrew Department, and the Provost.

The College has been much concerned that its Department of Town Planning, of which Professor Sir William Holford is the Head, has been housed in such inadequate temporary buildings. During the session, with a grant made through the Court of the University from the University Grants Committee, the College has been able to purchase a freehold building in Flaxman Terrace. Part of this will be used as a book-store for the Library but the rest will give commodious accommodation to the Department of Town Planning.

The College has long been anxious to restore the professoriate of the Faculty of Laws to its full strength and it has welcomed one step in this development made possible by the conferment of the title of Professor of English Law on R. C. FitzGerald.

In the Faculty of Science the most valued development was the opening of the new block of the Department of Physics. The Department of Physics suffered much from war damage, and now the whole of a fine new building is available both for teaching and research. Though this marks only Part I of the College's plans for the development of the department, it provides a substantial and modern structure and makes an impressive addition to the resources of the Physics Department. A Special Honours Degree in Biochemistry has been instituted. The College is the only School of the University to offer courses for the degree and this long awaited expansion of the Department of Biochemistry, which had been previously delayed solely on financial grounds, has been much welcomed in the College and in the University as a whole. The resources of the Faculty have increased to an important degree. The top-storey of the Chemistry Department which was built from funds subscribed largely by industry to commemorate the centenary of Sir William Ramsay's birth has been completed, equipped, and is in use. It permits the Department of Chemistry to increase the number of its undergraduates and its facilities for research.

Other opportunities have developed during the session. The houses at 17 and 18 Gordon Square have been converted for the use of the Department of Psychology. This has permitted the consolidation of the department as a unit at an important period in its development. The consequent changes have made possible the allotment of some additional accommodation to the Department of Geology.

The senior staff of the departments in the Faculty were strengthened by the appointment of Dr T. Barnard as a Reader in Micropalaeonto-

logy and of Dr J. Heslop Harrison to the new established Readership in Taxonomy.

The College has long had, as a major part of its development plan, the construction of a Biological Sciences Block in Gower Street, and a grant made through the Court of the University from the University Grants Committee has permitted the first stage of this work to begin. This building will relieve the crowding in the medical and scientific departments. An interesting change in the senior staff of the Faculty of Medical Sciences has been the appointment of Dr D. R. Wilkie to the established Readership in Experimental Physiology.

In Engineering the session has been marked by a careful reassessment of the needs of the Faculty. Though only one senior appointment has been made by the conferment of the title of Reader in Photogrammetry on Dr E. A. Miskin, the College has been much concerned with its general planning for the Faculty. While it realizes that the senior staff in Engineering is such as would permit the College to make a contribution of great national importance to the training of engineers and to technological research, it has been unable owing to other claims, many of them arising from war damage conditions, to put forward a development plan for the Engineering Faculty.

A plan has now been accepted by the College Committee and forwarded to the Court of the University by which new buildings for the Engineering Faculty could be built in stages. For the first stage, which would comprise mainly the Chemical Engineering Block, detailed plans have been prepared, and a vacant site is ready on the south end of the College Rectangle. One industrial organization has promised £25,000 towards this proposed development. A sum in the region of £300,000 will be needed for the completion of the first part of this modernizing of the Engineering departments.

Reference was made in our last Report to the initiation of the Communication Research Centre. On 13 October 1953 a dinner was held at the College to mark the inauguration of the Centre. This was attended by leaders of industrial organizations as well as members of the College. The main speaker was the Minister of Labour, the Right Hon. Sir Walter Monckton. The activities of the Centre during the session have been three-fold: (1) a series of seven public lectures was given, details of which are in Appendix VI; the lectures will be published as a volume in the spring of 1955; (2) regular seminars were held among interested members of the academic staff; (3) contact was established with various industrial organizations and academic institutions concerned with communication research.

There have been statements in some quarters that the numbers of

university students are declining. This has not been our experience: the total number of students at the College has increased from 3,441in 1952–53 to 3,551 in 1953–54. Applicants for entry, taking the College as a whole, still remain abundant. Meanwhile, to improve its facilities for advising its graduates on their careers, and particularly for advising graduates of the Faculty of Arts who wish to enter industry, the College has decided to continue the part-time post of Careers Adviser, created in 1952 on an experimental basis, and Mr Orson Wood has been re-appointed to the office.

There has been an increased response to the services of the Student Health Centre. On the medical side Dr Nicholas Malleson has been ably assisted by Dr Arnold Linken, whose initial appointment for a period of one year has been extended to the end of the present quinquennium, and by Dr Margaret Withof-Keus who works on a part-time basis. Dr Desmond O'Neill, the consultant psychiatrist, has continued to see patients at St Mary's Hospital, and Alan Higgitt has come to the Centre twice weekly in order to give eye tests to an increasing number of students and others under the National Health Scheme.

In view of the success of the first dental unit, under E. K. Hyde, and the long waiting list for appointments, a second dental surgery was set up in May 1954, financed by a loan from the College. Miss Madeleine Skerl was appointed Assistant Dental Surgeon.

The College is pursuing its policy of taking every opportunity to increase residential facilities in the neighbourhood of the College. During the session Campbell Hall (5–10 Taviton Street) was opened as a residence for over one hundred woman students. Similarly the College welcomed a proposal from the University by which additional houses (Numbers 44 and 51–53) have become available in Cartwright Gardens to extend the facilities of Bentham Hall as a men's hall of residence.

The College has in all 743 postgraduate and research students and it has had a tradition of making special provisions for this ever-increasing though widely scattered part of the College community. Reference has been made in earlier Reports to the existence of a post-graduate common room, and to the labours of Dr T. J. B. Spencer as Adviser to Postgraduate Students. As Dr Spencer wished to be relieved of this office which he had held since 1949 he has now been succeeded by Dr D. J. B. White.

A detailed list of gifts and benefactions will be found in Appendix XII, but here it might be emphasized that the many research programmes planned by the various departments of the College could not

be conducted without substantial support from outside bodies. In this connection it is important to recall that nearly one fifth of the total academic staff of the College work here in an honorary capacity as Research Assistants or Research Associates. While the major part of our income is derived from the University Grants Committee Grant and the Home Counties Grant made through the Court of the University, the College is deeply grateful to the outside bodies and persons who help us to maintain those advanced studies and research upon which the reputation of the College has so largely depended. A scrutiny of the list of benefactions and gifts reveals the variety of the support. The great Foundations are all represented: for instance the Nuffield Foundation placed £27,578 at the disposal of the College for various research projects in the session under review. All the main Research Councils have contributed to one or more research undertakings, and assistance has again come from the Department of Scientific and Industrial Research. Meanwhile individual firms continue their aid, and as a single instance one may note the donation of Messrs Arthur Guinness, Son and Co. Ltd to the Communication Research Centre. Nor is the day of the private benefactor over. One anonymous donor gave £14,500 so that the study of Folk-Lore could be revived in the College, and this followed on a previous gift of £1,000.

The College was happy to be associated with an appeal launched, under the chairmanship of Lord Woolton, for funds to endow a fellowship in memory of the late Sir Jack Drummond. The appeal was very successful and a Drummond Research Fellowship in Nutrition has been instituted which will be tenable at any university or research institute in the United Kingdom or overseas. In view of Sir Jack Drummond's long association with University College, however, it was the wish of the Appeal Committee that the headquarters and the administration of the Trust should be located at the College, and to this suggestion the College Committee willingly agreed.

The general impression made by the session has been that the post-war period under which the College suffered so severely is drawing to an end. Some departments are still inadequately housed and others are in urgent need of development. The accommodation available to the Student's Union, as has been previously mentioned, will remain restricted until the Seamen's Hospital building becomes available to the College. On the other hand the restoration of the older and more historical buildings of the College now approaches completion. Under the guidance of Professor A. E. Richardson as architect, the whole work of reconstruction of the Portico, the Flaxman Gallery, the

Library, the North and South Junctions, and the Common Rooms has been completed. Professor Richardson's work has brought a degree of elegance to these, the most familiar parts of the College, which has been much appreciated. With the elimination of the temporary accommodation in the Cloisters it has been possible to restore to the College one of its traditional features. The Provost's Room has been restored to its original position in the corner of the South Junction; the Council and Committee Rooms have been placed in the South Wing, and a re-arrangement of the Accounts and Administrative Offices has permitted the establishment of the College Office and the Registrar's Department in a convenient position on the ground floor of the Main Building. In addition, vacant possession has been obtained of 23 Gordon Square, which will be used for academic purposes, while a lease has been taken of certain accommodation in 2 and 4 Gordon Square to help overcome some of our accommodation difficulties.

It was appropriate that in such a year the Special Visitor at the Assembly of Faculties should be Emeritus Professor D. M. S. Watson, for his memory of the College extends for over forty years, and he still has a research room in the Department of Zoology.

The completion of the restoration of the main building of the College has enabled the Library to provide adequate accommodation, for the first time since the war, for the working collections in each subject. Reference has already been made to the opening of the Mocatta Library, but in addition two convenient reading rooms were taken into use in the summer term for the English and German libraries, whilst adjacent accommodation has been occupied by the C. K. Odgen library and the library of the Folk-Lore Society, the space in the General Library vacated by this Society's collection providing a home for the Scandinavian library worthy of the many generous benefactions it has received in recent years. This stage of rebuilding has also provided the Library with a small strong room for the safe custody of its manuscripts and rare printed books.

The aim of increasing the amenities of the College has continued during the session to exercise the attention of the Association of Friends of University College. The Association has now been classified as a charity and its appeal was re-launched in February 1954. Under the guidance of Lord Strang, Sir Alfred Bossom, Sir Godfrey Ince, and F. C. Hooper, the Friends of University College have continued their plans for providing the College with amenities it would otherwise lack. The College collection of pictures is being catalogued, a large Minton tea service has been purchased for use for receptions by staff and students, and a grant has been authorized for

the purchase of musical instruments for the College Music Society and Chamber Music Club. Further plans, ranging from the commissioning of a drawing of the ex-Provost, Sir David Pye, to the making of documentary films of academic life, are under consideration.

COHEN, *Chairman*

B. IFOR EVANS, *Provost*

SUPPLEMENT

OBITUARY

Within the space of a few weeks news was received of the death of two of our Professors Emeritus, both associated with the College since the early years of the century: Professor J. P. Hill died in May 1954, and Professor T. G. Hill in June.

Professor J. P. Hill was Jodrell Professor of Zoology from 1906 to 1921 and Professor of Embryology from 1921 to 1938. After his retirement he continued his research and was often to be found at work in the Embryology Department. He has left to the College his unique collection of embryological material.

Professor T. G. Hill, coming to the Botany Department as an Assistant in 1907, was Assistant Professor from 1910 to 1912, Reader in Vegetable Physiology from 1912 to 1929, and Professor of Plant Physiology and Head of the Botany Department from 1929 to 1945.

Dr S. G. Vesey-FitzGerald, who died in September 1954, was a member of the Laws Department from 1929 to 1948. He undertook and inspired the teaching of Hindu, Mohammedan, and other systems of oriental law, and was at one time Dean of the Faculty.

Eight Fellows of the College died during the year: the Senior Fellow, Mr Nathaniel Micklem, whose death occurred shortly after his hundredth birthday, Sir John Blake, Dr Winifred E. Brenchley, James Thornton Carter, Dr Ethel M. Elderton, who was in our Departments of Statistics and Eugenics, first as a student and later as a member of the staff, from 1906 to 1945, Professor H. Frankfort, Director of the Warburg Institute, Dr Alfred Goodman Levy, and Dr Ronald H. B. Short.

Among old students there died A. D. Rutherston, who maintained an interest in the Slade School, in which he was a student from 1897 to 1902, by serving as a Member of the Slade Committee; and Dr E. H. Thierry, who for some years was a member of the staff of the Chemistry

Department, and was well known to men students of the period 1924 to 1932 as the Warden of University College Hall, Ealing.

The Slade School has suffered a grievous loss by the untimely death of J. Buckland-Wright, who from 1950 brought to the School his long experience in the field of engraving, and has left the engraving department a place of increasing vitality and importance.

HONOURS AND APPOINTMENTS

In the 1954 New Year Honours, Sir William Strang, Fellow of the College and President of the Association of Friends of University College, was created a Baron. Knighthoods were conferred on Dr E. W. Fish, at one time a research student and later an Honorary Research Associate in the Department of Physiology; on Edward Maufe, an old student of the Slade School who until recently served on our Architectural Education Committee; and on Dr E. T. Paris, Fellow of the College. The order of C.B. was conferred on A. E. Popham, at one time a student in the Faculty of Arts.

The Queen's Birthday Honours in 1954 included the conferment of the order of G.B.E. on C. W. Judd, a former student in the Faculty of Arts; of the order of K.C.M.G. on Major-General L. B. Nicholls, Fellow of the College and Chairman of Cable and Wireless Limited, and A. J. Gardener, former student in the Faculty of Arts; of knighthoods on Dr G. R. de Beer, at one time Professor of Embryology, and M. A. Bracey Smith, a former student of the Slade School; the order of C.B. on E. R. Copleston, a former student in the Faculty of Arts, and of C.M.G. on A. W. Snelling, a former student in the Department of Economics. On the occasion of the opening by H.M. The Queen of the hydro-electric scheme at Owen Falls, the order of C.M.G. was conferred on Henry Olivier, a former research student in the Department of Civil Engineering, for services to the Uganda Electricity Board.

From the long list of other honours and appointments obtained by past and present members of the College it is possible to mention only a few. Professor A. B. Hill was elected a Fellow of the Royal Society; Professor A. D. Momigliano and J. N. Summerson as Ordinary Members of the British Academy, and Professor Rodrigo Moynihan as a Royal Academician. The King of Sweden has appointed Professor A. H. Smith a Chevalier of the Royal Order of the North Star. Professor C. K. Ingold has been elected an Honorary Life Member of the New York Academy of Sciences, and Professor Sir Robert Robinson an Honorary Member of the Japan Academy. Professor S. R. K. Glanville was elected Provost of King's College, Cambridge,

from October 1954. Professor J. W. Cook was appointed Principal of the University College of the South West; Dr C. A. Hart, Principal of the Nigerian College of Arts, Science and Technology; and Professor E. G. Turner, Director of the Institute of Classical Studies in the University of London.

The following have been appointed to University Chairs and professorial posts: Dr W. G. Beasley to the Chair of History of the Far East at the School of Oriental and African Studies; Dr J. Heslop Harrison to the Chair of Botany in the University of Belfast; Dr Harold Jenkins to the Chair of English at Westfield College; J. H. Kellgren to the Chair of Rheumatology in the University of Manchester; Dr W. D. M. Paton as Professor of Pharmacology in the Royal College of Surgeons; Dr C. A. Rogers to the Mason Chair of Pure Mathematics in the University of Birmingham; and Dr Edward Sarmiento as Professor of Spanish at the University College of South Wales and Monmouthshire.

RETIREMENTS

Five members of the College retired at the end of the session, all of them having had long periods of service: Dr C. R. Bailey, Reader in Chemistry, a member of the department since 1920, who, outside his work in the department, served the College as Chairman of the Refectory Committee, Secretary of the Men's Staff Common Room, and earlier in the Officers' Training Corps; T. L. Wren, Reader in Geometry in the Mathematics Department since 1919; John Wilks, Librarian of the College since 1926 and a member of the Library staff since 1910, who had carried through the work of restoring the Library after its destruction during the war; and H. E. Foster, Registrar of the College since 1932 and a member of the administrative staff since 1920. Professor H. Terrey retired from the Chair of Chemistry but has consented to remain in the department until his successor arrives in this country in March 1955. Besides playing an important role in the life of the Chemistry Department for over forty years Professor Terrey has made an outstanding contribution to the work of the Students' Union by holding office for many years as a Senior Treasurer of the Union and President of the Central Athletics Board.

APPOINTMENTS

As a result of the above retirements, several appointments were made which will take effect in 1954–55. Dr R. S. Nyholm, of the New South Wales University of Technology, has been appointed to the Chair of Chemistry, and Dr P. Du Val, of the University of Bristol,

to the Readership in Geometry. J. W. Scott, Librarian of Birkbeck College since 1946, becomes Librarian, and A. J. L. Cahill returns from the Senate House to the College as Registrar.

The changes in faculty appointments at the beginning of 1953–54 were as follows: Professor H. Terrey succeeded Professor S. E. Hollingworth as Dean of the Faculty of Science; Professor M. B. Donald became Dean, and Professor F. Brailsford Vice-Dean, of the Faculty of Engineering.

OLD STUDENTS' ASSOCIATION

At the General Meeting of the Association on 22 October 1953, Dr H. K. Cameron was elected President for the session 1953–54 in succession to F. E. Warner.

A full programme of social activities was carried out, including a dinner-dance. The Association was grateful to Mr Leveen, Keeper of the Department of Oriental Manuscripts and Printed Books at the British Museum, who conducted two groups, each of thirty members, round his department. In June over a hundred members visited St Albans and saw the Roman Remains under the guidance of Sir Mortimer Wheeler and Dr Kathleen Kenyon.

A section of the Association, known as '22 Planning Group', has been formed by former students of the Town Planning Department.

The first copy of a news bulletin containing information about changes of address, honours, appointments, and items of College news, has been issued to members. This replaces the former Handbook which is now too costly to produce.

THE STUDENTS' UNION

The President, R. L. Butler, has reported that the problem of accommodation for the Union remains a serious one, though the re-opening of the whole of the Cloisters will give the Union increased facilities for a number of functions. The plans for a brighter interior in the Students' Refectory were also very welcome. Most of the social functions held have been financially successful, though the Union looks forward to the larger opportunities that will occur when accommodation is available in the Seamen's Hospital building. Some outstanding events may be mentioned. The Music Society provided a very full year of concerts and recitals and in addition a fine operatic production, *L'Elisir d'Amore*, a little-known work by Donizetti, which was honoured with a visit from Vaughan Williams. The Dramatic Society achieved its customary standard of excellence; its performance of Sartre's *Vicious Circle* receiving particularly high praise. The Film

Society's carefully chosen programmes covered many themes, the French Cinema, Man and the Machine, War Films, and the Rise of the Screen Comedy. In the course of these series many of the classics of film production were shown. The Society also produced a number of films: technical, newsreel, and fiction. The Debating Society at last found an adequate chamber in the North Cloisters, and has once again attained the place in the Union which it claimed in the pre-war period. Among many fine debates, one between Dr Barnett Stross, M.P., and Professor Glanville Williams, on the subject of legalized euthanasia, reached a very high level of serious and intelligent comment.

The Central Athletics Board claims by far the largest part of the Union income. It has been given a block grant the internal distribution of which is to be of its own arranging. Proper depreciation funds have been set up to cover the new substantial Union holdings of capital equipment.

The amalgamation of the Men's and Women's Unions, whose governments have been jointly conducted for the past five years, is now almost complete, although the niceties of the law have made the procedure slow and uncertain. In general the year has not been greatly different from any other year of the Union's history. The Union, part community, part club, part trade union, has done its jobs to the best of its abilities.

'We must express our gratitude', says the President, 'to the many people without whose assistance the Union could not function, though it is not possible to mention by name all those to whom we owe our thanks. The Provost has shown a deep and continued interest in our affairs, and his efforts to promote a closer relationship between staff and students have been greatly appreciated. We have been more than fortunate in retaining the experienced and wise counsels of Professor Terrey as President of the Central Athletics Board, while our Senior Treasurers, Dr Constance M. Rigby and Dr E. A. Miskin, have been a constant source of help and advice. Professor R. C. FitzGerald has once again been an invaluable member of many of our committees. Our Permanent Secretary, Miss Margaret Richards, remains efficient and indispensable, especially in providing the necessary continuity in an organization whose personnel is constantly changing. Thanks are also due to the officers and officials of the Union for the time and energy they have devoted to its work.'

WORK OF THE FACULTIES

FACULTY OF ARTS

ANTHROPOLOGY

Field investigations in physical anthropology, covering the collection of blood grouping material for research in sickle-cell trait and disease, were carried out in Nigeria aided by a grant from the Colonial Medical Research Council. Research was also undertaken in the department on a regional survey of hair colour in the British Isles, the electron microscopy of human hair pigments, biochemical studies on sickle-cell and other abnormal haemoglobins, and 17-steroid excretion in West African negroes and Europeans.

Field investigations in social anthropology were continued among the Mambila of the British Cameroons, and reports on field work among the Abelam of New Guinea, the Trobriand Islanders, the Lele of the Belgian Congo, and the Mambila were prepared in the department during the year.

PUBLICATIONS

BARNICOT, N. A. (with F. T. Sai), Blood-urea levels of West Africans in London. *Lancet*, i (1954), 778–9.

DOUGLAS, M., The Lele of the Kasai. *African Worlds*, ed. Daryll Forde, 1–26. Oxford University Press for International African Institute, 1954.

Native treatment of leprosy in the Belgian Congo. *Medical Press*, ccxxxi, No. 11 (1954), 251–2.

FORDE, DARYLL (Editor), *African Worlds; Studies of African Cosmological Ideas and Social Values*. Oxford University Press for International African Institute, 1954. xvii+243 pp.; Introduction, i–xv.

The conditions of social development in West Africa: retrospect and prospect. *Civilisations* (Bruxelles), iii, No. 4 (1953), 471–90.

ARCHAEOLOGY

Particular lines of research pursued by members of the staff and postgraduate students have lain in the fields of ancient printing, Greek pottery-technique, and Roman stuccoes.

PUBLICATION

ROBERTSON, MARTIN (with T. J. Dunbabin), Some Protocorinthian vase-painters. *Annual of the British School at Athens*, xlviii (1953), 172–81.

BARTLETT SCHOOL OF ARCHITECTURE

The subjects of study of the two postgraduate students who have worked for the Ph.D. Degree were the design of public squares, and tropical architecture.

Mr A. M. Foyle has recently returned from an extensive tour of South and West Africa which he undertook for the purpose of pursuing research on housing and local conditions. He was enabled to carry out this work by the award of a research grant from the University of London. He was also granted facilities for travel and accommodation in Africa by the Colonial Office and the French Colonial Authorities.

The French Government have awarded a scholarship to Mr K. J. H. Brown, a fourth year student of the School, to enable him to spend one year in the advanced design class at the Ecole Nationale Supérieure des Beaux Arts. Mr P. R. Alexander, another fourth year student, has been awarded a French Government Scholarship in order that he may spend one month travelling in France.

The School again took part in the Annual Competition between British Schools of Architecture and the Ecole Nationale Supérieure des Beaux Arts arranged by the Franco-British Union of Architects. Mr K. J. H. Brown won the third prize.

PUBLICATIONS

FOYLE, A. M. (Editor), *Conference on Tropical Architecture 1953*. Report of Conference at University College London, Mar. 1953 (1954), 144 pp.

Houses in Benin. *Nigeria Magazine*, No. 42 (1953), 132–9.

EGYPTOLOGY

Mr A. J. Arkell spent five weeks of the first term in the Anglo-Egyptian Sudan, at the invitation of the Commissioner for Archaeology, to advise on the affairs of the Sudan Antiquities Service. During this visit he conducted a rapid archaeological survey of the Red Sea area north of Port Sudan.

In the room housing the Edwards Library, equipment has been installed for small lectures. It is hoped that visiting Egyptologists will find these lecture facilities convenient for discussion groups.

Since the appointment of a technician to the department in August 1953, the treatment and/or repair of 253 items in the Flinders Petrie Collection has been completed; sixty-three items are still under treatment. This does not include the restringing of beads. The arrangement and identification of objects in the Petrie Collection

has been continued throughout the year. It has only been possible to unpack a few more boxes; the 352 boxes which remain to be unpacked when more accommodation is available for the collection mostly contain pottery and large stone objects, many of which urgently need treatment to remove the salt with which they are impregnated.

The department has suffered a loss by the retirement of Miss Lafleur in December 1953. She had been an honorary member of the department for many years and it was largely due to her that the Flinders Petrie Collection survived the devastation of enemy action during the late war.

PUBLICATIONS

ARKELL, A. J., *Shaheinab*. Oxford University Press, 1953. 114 pp. 43 pls.
The Sudan origin of Predynastic 'Black Incised' pottery. *Journal of Egyptian Archaeology*, 39 (1953), 76–9.
The Late Acheulean of Shaheinab. *Kush*, 1 (1953), 30–4.

EMERY, W. B., *Great Tombs of the First Dynasty, II*. Egypt Exploration Society. Oxford University Press, 1954. 180 pp. 66 pls.
Preliminary report on the excavations at Sakkara. *Illustrated London News*, 224, No. 6004 (1954), 803–5.

ENGLISH LANGUAGE AND LITERATURE

Work in the department is continuing in the following fields: English Place-Name Survey; *Piers Plowman*—editions of the texts and linguistic studies; editions of Mediaeval and Tudor Drama, and of Shakespeare's plays; a volume of the *Oxford History of English Literature* covering the Restoration period. The edition of Shakespeare's complete works, planned by Professor Sisson when he was Lord Northcliffe Professor, has now been completed by him with the collaboration of other members of the department, and was published by Odhams in April 1954.

Dr C. R. Quirk has held the post of Secretary of the Communication Research Centre.

PUBLICATIONS

BROWN, A. (Editor), T. Heywood, *The Captives* (Malone Society Reprints). Oxford: Malone Society, 1953. xiv+127 pp.
Flying Dutchman; Folk literature; Legend; Wandering Jew. *Cassell's Encyclopaedia of Literature*, ed. S. H. Steinberg, 223–4, 224–7, 339–40, 568. London: Cassell, 1953.

HULME, HILDA M., Shakespeare's Language. *William Shakespeare, The Complete Works*, ed. C. J. Sisson, xlii–xlvi. London: Odhams Press, 1954.
Glossary. *Ibid.*, 1345–76.

JENKINS, H., Edition of Sir Thomas More. *William Shakespeare, The Complete Works*, ed. C. J. Sisson, 1235–66. London: Odhams Press, 1954.
William Shakespeare: a biographical essay. *Ibid.*, ix–xvii.
Shakespeare's life, times and stage. *Shakespeare Survey*, No. 7 (1954), 138–46.

NOWOTTNY, WINIFRED M. T., The Canon and the Text. *William Shakespeare, The Complete Works*, ed. C. J. Sisson, xviii–xxiv. London: Odhams Press, 1954.
Editors, Editions and Critics. *Ibid.*, xxv–xxxiii.
'Opinion' and 'value' in *Troilus and Cressida*. *Essays in Criticism*, iv (July 1954), 282–96.

QUIRK, C. R., *The Concessive Relation in Old English Poetry*. New Haven: Yale University Press, 1954. xiv+150 pp.
Vis Imaginativa. *Journal of English and Germanic Philology*, liii (Jan. 1954), 81–3.
Studying communication. *Public Relations*, vi, No. 4 (July 1954), 3–4.

SMITH, A. H., *The Preparation of County Place-Name Surveys*. London: English Place-Name Society, 1954. 56 pp.

SPENCER, T. J. B., *Fair Greece Sad Relic. Literary Philhellenism from Shakespeare to Byron*. London: Weidenfeld and Nicolson, 1954, 312 pp.
Criticism. *Cassell's Encyclopaedia of Literature*, ed. S. H. Steinberg, 124–38. London: Cassell, 1953.
The Theatre and the Actors. *William Shakespeare, The Complete Works*, ed. C. J. Sisson, xxxiv–xli. London: Odhams Press, 1954.
Index of Characters. *Ibid.*, 1331–44.
Three Shakespearian notes. *Modern Language Review*, xlix (Jan. 1954), 46–51.

SUTHERLAND, J. R., *Defoe* ('Writers and their Work' Series). London: British Council. 36 pp.

SLADE SCHOOL OF FINE ART

There were 201 full-time students attending the School throughout the session; of these 161 were following the course leading to the University of London Diploma in Fine Art, twelve were spending a year in post-Diploma study, and the rest were following no set course. A British Council Scholar came from Greece, while there were two Fulbright Scholars and six other students from the United States of America. Overseas students also came from Australia, South Africa, Uganda, Canada, Chile, Hong Kong, Egypt, New Zealand, Pakistan, Portugal, Venezuela, and the West Indies.

At the annual entrance examination held in January, 262 candidates competed for places in October 1954; sixty-eight were accepted.

During the session the following artists have taught periodically in the School: Mr Edward Ardizzone, Mr Rodney Burn, Mr Patrick Heron, Mr L. S. Lowry, Mr Henry Moore, Mr Victor Pasmore, and Mr John Piper.

In the summer term Sir Kenneth Clark gave a course of five lectures on 'The Nude'. These were attended not only by students of the Slade School, but also by students from many other departments of the College and from the Courtauld Institute of Art. Also, during the summer term, Mr David Sylvester gave a course of six lectures on Modern Sculpture.

Mr Robert Medley's teaching in Stage Design was supplemented during the session by visits and lectures from Mr Basil Coleman, Mr John Cranko, Mr James Laver, Mr Norman Marshall, and Mr Robert Stanbury. Students of the Slade School provided settings for the Dramatic Society's production of *L'Elisir d'Amore* and *The Taming of the Shrew*, as well as for a Morley College production of *Twelfth Night* in the courtyard of the George Inn, Southwark.

The Rome Prize for 1954 was awarded to Miss Diana Cumming, and an Abbey Minor Scholarship to Mr B. G. Daniels. French Government Scholarships for ten months' study in France were awarded to Miss Jennifer Simpson and Mr B. Cohen, and an Italian Government Scholarship to Miss Jean Nicoll.

PUBLICATIONS

BUCKLAND-WRIGHT, J. (the late), *Etching & Engraving: Techniques and the Modern Trend*. London: Studio Publications, 1953. 240 pp.
Six coloured engravings in *The Circle of Chalk* (translated by Frances Hume). London: Rodale Press, 1953.

FORGE, ANDREW, *Paul Klee, II. Faber Gallery*. London: Faber & Faber, 1954. 24 pp. (incl. 10 pls.).

GWYNNE-JONES, A., *Introduction to Still-Life*. London: Staples Press, 1954. 112 pp. (incl. 68 pp. illust.).

LAMB, LYNTON, *Preparation for Painting: The Purpose and Materials of the Artist*. Oxford University Press, 1954. 166 pp. (incl. 28 pls.).
Eight lithographed illustrations in Anthony Trollope, *The Two Heroines of Plumplington*. London: Andre Deutsch, 1953.

WITTKOWER, RUDOLF, That great luminary of architecture. *The Listener*, 50 (1953), 1080–1.
Systems of proportion. *Architects' Year Book*, v (1953), 9–18.
Brunelleschi and 'Proportion in Perspective', *Journal of the Warburg and Courtauld Institutes*, xvi (1953), 275–91.
The art and architecture of France. *The Listener*, 51 (1954), 26.
The influence of Palladio's villas. *Country Life*, 115 (1954), 516–17.

WITTKOWER, RUDOLF, CARTER, B.A.R., The perspective of Piero della Francesca's 'Flagellation'. *Journal of the Warburg and Courtauld Institutes*, xvi (1953), 292–5.

FRENCH

As in the previous year research was mainly concentrated in the two fields of mediaeval prose and the literature of the last hundred years.

Under the scheme organized by the Institut Français du Royaume Uni, a course of three lectures on Diderot was delivered to French Honours students by Monsieur A. Boutet de Monvel. This contact with a member of the staff of the Institut was both useful and pleasant and a similar course will be organized next session.

A departmental week-end at Cumberland Lodge at Windsor in October has now become an annual event and serves a very useful purpose in introducing new students to the department.

PUBLICATIONS

ASHER, R. E., SCREECH, M. A., WALKER, D. P., Review of *Dictionnaire des lettres françaises, Seizième Siècle* (1951). *Bibliothèque d'Humanisme et Renaissance, Travaux et Documents*, xvi (1954), 267–72.

HILL, CHRISTINE M., Symphorien Champier's views on education in the *Nef des Princes* and the *Nef des Dames Vertueuses*. *French Studies*, vii (1953), 323–34.

KNOWLES, M. CHRISTINE, Les enseignements de Théodore Paléologue. *Byzantion*, xxii (1952), 389–94.

SMITH, COLIN, edition of E. Renan, *Caliban, suite de la Tempête*. Manchester University Press, 1954. 111 pp.

TANCOCK, L. W., Emile Zola, *Germinal*. A new translation with introduction. Penguin Classics, No. L.45, 1954. 497 pp.
The Eighteenth Century. *The Year's Work in Modern Language Studies*, xiv (1953), 56–62.

WALKER, D. P., Orpheus the theologian and Renaissance Platonists. *Journal of the Warburg and Courtauld Institutes*, xvi (1953), 100–20.
Ficino's "Spiritus" and music. *Annales musicologiques*, i (1953), 131–50.

WEST, G. C., 'L'uevre Salomon'. *Modern Language Review*, xlix (1954), 176–82.

WOLEDGE, B., *Bibliographie des romans et nouvelles en prose française antérieurs à 1500*. (Société de Publications romanes et françaises, vol. 42). Geneva and Lille: Droz and Giard, 1954. 181 pp.
French medieval literature. *The Year's Work in Modern Language Studies*, xiv (1953), 29–38.

GEOGRAPHY

Progress has continued upon two large research projects centred in the department, namely the Land Utilisation Survey of the Chilterns and the Domesday Geography of England, and research has also been done on Scandinavia.

DARBY, H. C., On the relations of geography and history. *Trans. Inst. Brit. Geogr.*, 19 (1953), 1–11.
Gloucestershire; The Midland Counties. Two chapters in *The Domesday Geography of Midland England*, ed. H. C. Darby and I. B. Terrett, 1–56, 417–45. Cambridge University Press, 1954. 482 pp.
Some early ideas on the agricultural regions of England. *Agric. Hist. Rev.*, 1 (1954), 30–47.

MEAD, W. R., Ridge and furrow in Buckinghamshire. *Geogr. J.*, 120, Pt 1 (1954), 34–42.
Language and place. *Geographical Studies*, 1, Pt 1 (1954), 63–8.
A northern naturalist, Pehr Kalm. *The Norseman*, 12, Pt 2 (1954), 98–106; Pt 3, 182–8.

SINNHUBER, K. A., Geographische Forschung an den britischen Hochschulen. *Erdkunde*, 7 (1953), 225–9.
German sea fishing. *Geography*, 39 (1954), 35–7.

TERRETT, I. B., Rutland; Northamptonshire. Two chapters in *The Domesday Geography of Midland England*, ed. H. C. Darby and I. B. Terrett, 355–416. Cambridge University Press, 1954. 482 pp.

WHEATLEY, P., Staffordshire. Chapter in *The Domesday Geography of Midland England*, ed. H. C. Darby and I. B. Terrett, 160–214. Cambridge University Press, 1954.

GERMAN

The collaboration of all members of the department in the institution in 1952–53 of an introductory course for first year Honours students, entitled 'The Release of the Imagination in Germany in the Eighteenth Century' was found to be so fruitful that it was decided to continue and rework the course in 1953–54.

Research work in the department has proceeded in the following fields: mediaeval literature, seventeenth-century literature, eighteenth-century literature, especially Herder and Goethe, and twentieth-century literature. Dr Elizabeth M. Wilkinson was awarded a Leverhulme Fellowship and has been absent during the year on sabbatical leave. In her absence her place was taken by Dr H. H. Weil from Queen's University, Kingston, Ontario. Dr Wilkinson has become editor of the *Publications of the British Goethe Society*.

PUBLICATIONS

FORSTER, L. W., Some account of the correspondence of Johann Heinrich Ott of Zürich (1617–1682) preserved in the Library of the French Hospital. *Proceedings of the Huguenot Society of London*, xix, No. 1 (1953), 65–73.
Dichterbriefe aus dem Barock. *Euphorion*, xlvii, No. 4 (1953), 390–411.
Georg Rudolf Weckherlin—englischer Staatsmann und deutscher Dichter. *Englische Rundschau*, iv, No. 21 (1954), 302–3.

Unpublished Comeniana: Philip von Zesen, John Dury, Johann Heinrich Ott and others. *Slavonic and East European Review*, xxxii, No. 79 (1954), 475–86.

HAMBURGER, M. P. L., Art and Nihilism: the poetry of Gottfried Benn. *Encounter*, iii, No. 4 (1954), 49–59.
Contemporary German poetry. *The P.E.N. Bulletin*, v, No. 2 (1954), 39–42.
Review of Hölderlin, *Sämtliche Werke* (ed. Beissner). *German Life and Letters*, new series, vii, No. 1 (1953), 69–71.

ROWLEY, B. A., Correspondence (on stylistic analysis). *Cambridge Journal*, vii (1954), 495–7.

GREEK

The inaugural meeting of the Institute of Classical Studies, of which Professor E. G. Turner has become Director, was held at the College and was addressed by Professor Bruno Snell of Hamburg University. The Institute seminar on Linear B has also been held in the College and has been attended by scholars from Oxford, Birmingham, and Leeds Universities as well as from this University and the British Museum. In connection with this Mr R. Browning has organized the transcription of the Knossos tablets. The College seminar on Greek Language and Thought has continued for a third year.

PUBLICATIONS

BROWNING, R., A note on the capture of Constantinople in 1453. *Byzantion*, 22 (1952), 379–87.

CUNNINGHAM, MARGARET L., A fragment of Aeschylus' *Aigyptioi*? *Rheinisches Museum*, 96 (1953), 223–31.

FURLEY, D. J., The purpose of Theophrastus's *Characters*. *Symbolae Osloenses*, 30 (1953), 56–60.

HANDLEY, E. W., *-sis* nouns in Aristophanes. *Eranos*, 51 (1954), 129–42.

TURNER, E. G. (with C. H. Roberts), The beginning and the date of P. Ryl. IV 586. *Journal of Egyptian Archaeology*, 39 (1953), 113–14.

WEBSTER, T. B. L., Recent scholarship on Greek tragedy. *Diogenes*, 2 (1954), 85–100.
Greek comic costume: its history and diffusion. *Bulletin of the John Rylands Library*, 36 (1954), 563–88.
Fourth century tragedy and the *Poetics*. *Hermes*, 82 (1954), 294–307.

HEBREW

A seminar on Mediaeval Jewish Philosophy was conducted by Mr G. Weiss, who also gave a series of talks on some theological aspects of Rabbinic Literature. The department was visited by Professor Scholem of the Hebrew University, Jerusalem, who

addressed guests and staff members on Jewish Esoteric Traditions and Gnosticism. Research was continued on mediaeval exegetical, philosophical and mystical literature.

New accommodation was provided near to the Gustave Tuck Theatre and the Mocatta Library.

PUBLICATIONS

STEIN, S., The Liturgy of Hanukkah and the first two Books of Maccabees. Pt I. *Journal of Jewish Studies*, v, Pt 3 (1954), 134–42.

WEISS, J. G., Types of Hasidic piety (in Hebrew). *Aspects of Judaism* (J. Guttmann Memorial Volume), 81–90. Tel Aviv, 1953.

HISTORY

The training of postgraduate students continues to be a main feature of the work of the department. Senior members of the department are responsible for seven research seminars held at the Institute of Historical Research. Members of these seminars are drawn from many universities, both in this country and abroad, American students being prominent.

PUBLICATIONS

BARROW, G. W. S., Early Stewarts at Canterbury. *The Stewarts*, ix, No. 3 (1953), 230–3.

BELLOT, H. H., Section on the United States of America. *Annual Bulletin of Historical Literature*, xxxviii, 41–6. Historical Association, 1953.
Thomas Jefferson in American historiography. *Transactions of the Royal Historical Society*, 5th series, iv (1954), 135–55.
Reviews of the following:
W. P. Webb, *The Great Frontier*. *The William and Mary Quarterly*, 3rd series, xi (1954), 121–6.
J. G. Randall, *Lincoln the President*. III. *Midstream*. *English Historical Review*, lxix (1954), 119–20.
T. J. Pressly, *Americans Interpret their Civil War*. *The Annals of the American Academy of Political and Social Science*, ccxciv (1954), 183–4.

CHRISTIE, I. R., Horace Walpole: the gossip as historian. *History Today*, iv, No. 5 (1954), 291–300.

COBBAN, A. B. C., *Ambassadors and Secret Agents*. London: Jonathan Cape, 1954. 255 pp.
Vichy France. *Survey of International Affairs, 1939–1946: Hitler's Europe*, ed. Arnold and V. M. Toynbee, 338–434. Oxford University Press, 1954.
Security and sovereignty in French foreign policy. *International Journal* (Canadian Institute of International Affairs), viii (1953), 172–80.
The decline of political theory. *Political Science Quarterly*, xviii (1953), 321–37.
Der verfall der politischen theorie (translation of preceding article). *Der Monat* (Berlin), 69 (1954), 227–37.

British Secret Service in France, 1784–1792. *English Historical Review*, lxix (1954), 226–61.
The art of Kingship: Louis XIV. *History Today*, iv (1954), 149–58.
The Open Society: a reconsideration. *Political Science Quarterly*, lxix (1954), 119–26.
Reviews of the following:
A. Goodwin, *The French Revolution. English Historical Review*, lxix (1954), 344–5.
P. Harsin, *La Révolution Liègoise de 1789. Ibid.*, 354–6.

DAVIS, R. H. C. (Editor), *The Kalendar of Abbot Samson of Bury St Edmunds and related documents*. Camden 3rd series, lxxiv (1954), lvii+200 pp.
Balliol College: the buildings. *Victoria History of the County of Oxford*, iii (1954), 90–5.

HUMPHREYS, R. A., Associate Editor, *Hispanic American Historical Review*.
William Robertson and his History of America. The Canning House Annual Lecture, 1954. Hispanic and Luso-Brazilian Councils, 1954. 28 pp.
Section on Latin America. *Annual Bulletin of Historical Literature*, xxxviii, 46–7. Historical Association, 1953.

HURSTFIELD, J., Wardship and marriage under Elizabeth I. *History Today*, iv (1954), 605–12.
Reviews of the following:
Materials in the National Archives relating to World War II. Archives, ii (1953), 111–12.
G. R. Elton, *The Tudor Revolution in Government. Econ. Hist. Review*, vii (1954), 110–11.

MOMIGLIANO, A., In memoria di Michele Rostovtzeff (1870–1952). *Rivista Storica Italiana*, 65 (1953), 481–95.
M. I. Rostovtzeff. *The Cambridge Journal*, 7 (1954), 334–46.
Gibbon's contribution to historical method. *Historia*, 2 (1954), 450–63.
Greek translation of Inaugural Lecture, *George Grote and the Study of Greek History* in *Angloelliniki Epitheorisi*, 6 (1954), 263–78.
Bibliographical appendix (1940–52) to G. De Sanctis, *Storia dei Greci* (2nd ed.). Florence, 1954, 28 pp.
Reviews of the following:
F. Sanmarti Bencompte, *Zacito en Espana. Athenaeum*, 31 (1953), 353–5.
M. Ventris and J. Chadwick, *Evidence for Greek Dialect in the Mycenaean Archives. Rivista Storica Italiana*, 65 (1953), 436–7.
O. R. Gurney, *The Hittites. Ibid.*, 66 (1954), 92–4.

REDDAWAY, T. F., Books on London 1949–53. *British Book News*, No. 163 (1954), 145–9.

ITALIAN

The members of the department are engaged in research on Renaissance Italian Literature.

PUBLICATIONS

AQUILECCHIA, G., Il capitolo desanctisiano sulla 'Nuova Scienza'. *Società*, ix (1953), 3–22.

L'Adozione del volgare nei dialoghi londinesi di Giordano Bruno. Appunti per una interpretazione storica. *Cultura Neolatina*, xiii (1953), 30–56.

Weiss, R., Lo studio di Plutarco nel Trecento. *La Parola del Passato*, Fasc. xxxii (1953), 321–42.
The Castle of Gaillon in 1509–10. *Journal of the Warburg and Courtauld Institutes*, xvi (1953), 1–12.
Antonio Luxorta e Enrico VI. *Rinascimento*, iv (1953), 63–5.
Ancora 'Cretico'. *Ibid.*, 166–7.
Notes on Petrarch and Homer. *Ibid.*, 263–75.
The Aragonese Library of Naples. *Times Literary Supplement* (23 Apr. 1954), 272.

LATIN

PUBLICATIONS

Browning, R., Cicero, *De Oratore*, iii, 78. *Classical Review*, new series, 3 (1953), 144–5.
Review of E. A. Thompson, *A Roman Reformer and Inventor*. *Ibid.*, 106–7.

Skutsch, O., Der Ennianische Soldatenchor. *Rheinisches Museum*, 96 (1953), 193–201.
The Fall of the Capitol. *Journal of Roman Studies*, 43 (1953), 77–8.
Culex 275. *Classical Review*, new series, 4 (1954), 99.
Sound and sense in Virgil. *Virgil Society Lecture Summaries*, 33 (1954), 6 pp.

SCHOOL OF LIBRARIANSHIP AND ARCHIVES

PUBLICATIONS

Arnold, D. V., Book stock: building and maintenance. iii. Special libraries. *Bibliography and Book Stock*, 19–24. Eastbourne: The Library Association (London and Home Counties Branch), 1954.

Ellis, Roger, Le fonti archivistiche britanniche sui rapporti Anglo-Toscani nei secoli xviii e xix. *Atti dell' Accademia Lucchese di Scienze, Lettere, ed Arti*, viii, N.S. ii (1953), 43–50.

Irwin, R., *Foundations; a Historical View of Librarianship*. North-Western Polytechnic School of Librarianship, *Occasional Papers* No. 3, 1954, 16 pp.
Studies in the history of libraries: i. The age of miracles; ii. Colonnade and cloister; iii. The English domestic library; iv. The economics of writing and reading. *The Library Association Record*, 56, Nos. 2, 4, 6, 8 (1954), 39–43, 117–21, 195–201, 283–8.

Piggott, Mary, Cataloguing practice in university and special libraries. *The Library Association Record*, 56 (1954), 160–6.

Staveley, R., *Notes on Modern Bibliography*. London: The Library Association, 1954. 111 pp.
Notes on Some Problems in Reading. University College London, School of Librarianship and Archives: Occasional Publications, No. 4, 1954. 10 pp.

PHILOLOGY

PUBLICATIONS

SZEMERENYI, O. J. L., The development of the Indo-European Mediae Aspiratae in Latin and Italic. Pt III. *Arch. Lingu.*, 5 (1953), 1–21.
Illyrica. *Zeitschrift für vergleichende Sprachforschung*, 71 (1954), 199–217.
The Future Imperative of Indo-European. *Revue Belge de Philologie et d'Histoire*, 31 (1954), 937–54.
Greek ταφών–θᾶμβος–θεάομαι. *Glotta*, 33 (1954), 238–66.
The Latin adjectives in *-ulentus*. *Ibid.*, 266–82.
The Indo-European cluster *sl* in Latin. *Arch. Lingu.*, 6 (1954), 31–45.

PHILOSOPHY

The joint degree in Philosophy and Psychology has come into operation and will be examined for in 1956 for the first time.

PUBLICATIONS

AYER, A. J., *Philosophical Essays*. London: Macmillan, 1954. ix + 289 pp.
Cogito, ergo sum. *Analysis*, xiv, No. 2 (1953), 27–31.
Can there be a private language? *Supplementary Proceedings of the Aristotelian Society*, 28 (1954), 63–76.

BASSON, A. H. (with D. J. O'Connor), *Introduction to Symbolic Logic*. London: University Tutorial Press, 1953. viii + 169 pp.

WATLING, J. L., Propositions asserting causal connection. *Analysis*, xiv, No. 2 (1953), 31–7.

WOLLHEIM, R. A., The political philosophy of existentialism. *Cambridge Journal*, vii, No. 1 (1953), 3–19.
The nature of law. *Political Studies*, ii, No. 2 (1954), 128–41.
The difference between sensing and observing. *Supplementary Proceedings of the Aristotelian Society*, 28 (1954), 219–40.
Historicism reconsidered. *The Sociological Review*, ii, No. 1 (1954), 76–97.

PHONETICS

Linguistic research in the department has been largely concerned with the application of distributional criteria in the study of language structure, and the method has now been used for a number of European languages. Experimental work continues on mechanical speech recognition and on the numerous problems connected with the training and aid of the deaf. Collaboration has been maintained with the Institute of Otology and Laryngology, the Royal National Throat, Nose, and Ear Hospital, and the National Institute for the Deaf.

Mr J. D. O'Connor was granted leave of absence during the third term in order to carry out research at the Haskins Laboratories, New York.

PUBLICATIONS

FRY, D. B., Report of an experiment (on singing tone) made with electronic audio-frequency filters. App. to G. Mackworth-Young, *What Happens in Singing*, 110–13. London: Newman Neame, 1953.
Duration and intensity as physical correlates of linguistic stress (summary). *J. acoust. Soc. Amer.*, 26, Pt 1 (1954), 138.
The experimental study of speech. *Nature, Lond.*, 173 (1954), 844–6.
(with E. M. Whetnall), The auditory approach to the training of deaf children. *Lancet*, i (1954), 583–7.

GIMSON, A. C., Speech and language (review-article). *J. Educ.*, 86, No. 1019 (1954), 296–300.

O'CONNOR, J. D., TRIM, J. L. M., Vowel, consonant and syllable—a phonological definition. *Word*, 9 (1953), 103–22.

POLITICAL ECONOMY

At the beginning of the session the department embarked upon a three-year programme of research into the relation between Innovation and Structure in a number of British industries. The research is financed by a grant from the Board of Trade under the Conditional Aid Scheme. Several members of the teaching staff, and three additional research assistants provided under the Scheme, are participating in this work. Satisfactory progress has been made during the session and it is hoped to bring out a report on one of the industries under investigation by the end of 1954.

The research into Western Enterprise in Far Eastern Economic Development has continued. Part of the work dealing with China and Japan has been completed and the results published. The survey of Western Enterprise in Indonesia and Malaya will be completed during the coming session.

PUBLICATIONS

ALLEN, G. C., A note on monopoly and economic progress. *Economica*, new series, xx, No. 80 (1953), 359–61.
Socialisierung: Grossbritannien. *Handwörterbuch der Sozialwissenschaften*, Lieferung 6 (1954), 469–73.
Western enterprise in the Far East. *International Affairs*, 30, No. 3 (1954), 294–303.
Monopoly and competition in the United Kingdom. *Monopoly and Competition and Their Regulation*, ed. E. H. Chamberlin, 88–109. London: Macmillan, 1954.

ALLEN, G. C., DONNITHORNE, AUDREY G., *Western Enterprise in Far Eastern Economic Development: China and Japan*. London: Allen and Unwin, 1954. 292 pp.

BERRY, D., Modern welfare analysis and the forms of income redistribution. *Income Redistribution and Social Policy*, ed. Alan T. Peacock, 41–51. London: Jonathan Cape, 1954.

CORLETT, W. J., Effects on demand of changes in the distribution of income: a comment. *Econometrica*, 22, No. 3 (1954), 344–7.

CORLETT, W. J., HAGUE, D. C., Complementarity and the excess burden of taxation. *The Review of Economic Studies*, xxi (1), No. 54 (1953–4), 21–30.

DONNITHORNE, AUDREY G., Western business in Indonesia today. *Pacific Affairs*, xxvii, No. 1 (1954), 27–40.

STONIER, A. W., HAGUE, D. C., *A Textbook of Economic Theory*. London: Longmans Green and Co., 1953. x+513 pp.

SCANDINAVIAN STUDIES

The newly-established College Certificate in Scandinavian Languages is now attracting a number of students.

The department continues its close association with outside groups such as the Viking Society and the Anglo-Swedish Society which do much to foster the interest of students and others in our work.

The Scandinavian section has been recently rehoused in the General Library and not only are more books available than was possible before, but there is some room for expansion. The Icelandic collection has now been incorporated.

Mr P. G. Foote has had leave of absence for a great part of the session to continue his research in Iceland. The department is greatly indebted to Mr Garmonsway of King's College, Dr Timmer of Queen Mary College, and to Mr Eiríkur Benedikz for their help in continuing Mr Foote's teaching.

PUBLICATIONS

FOOTE, P. G., Icelandic language. *Encyclopedia Britannica* (American Printing), xii (1954), 49.

Review of U. Brown, *Þorgils saga ok Hafliða*. *Medium Ævum*, xxii, No. 2 (1953), 123–6.

KOEFOED, H. A., The place-names of Bornholm. *Saga-Book of the Viking Society*, xiii, Pt 5 (1952–3), 344–63.

OLSSON, Y. B., Svenska för engelsmän. *Göteborgs Handels- och Sjöfartstidning*, Nr 207 B (1953), 3–4.

TOWN PLANNING

Students taking the Diploma Course carried out a survey of South St Pancras and made planning proposals, illustrated by drawings and models, which were the subject of public discussion at the Housing Centre and later in the Borough itself.

The Social Research Unit, under the direction of Mrs Ruth Glass

and with the help of a grant from the Nuffield Foundation, has completed an inquiry into the extent and effects of Development Control by Local Planning Authorities; also a further survey of Lansbury, a study of the components and measurements of density, and a report including an annotated bibliography on recent and current developments in urban sociology in Britain and in Scandinavian countries.

PUBLICATIONS

CLARKE, J. J., *Social Welfare*. London: Pitman & Sons, 1953. 415 pp.

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FACULTY OF SCIENCE

ASTRONOMY

The department organized an expedition to observe the total eclipse of the sun seen from Syd Koster in Sweden on 30 June 1954. Some photographs were obtained although thin cloud prevented complete success.

Other researches at the Observatory have been concerned with the observation of star clusters, and with the calculation and observation of strengths of spectrum lines. A water-excited arc lamp for research on spectrum lines of astrophysical importance has been developed.

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BOTANY

The Nuffield Research Garden at Nuffield Lodge in Regent's Park is now in full use and the equipment is almost complete.

Work on proteins has been extended to East African plants with the aid of financial assistance from the Nuffield Foundation. New developments in plant physiology are being supported by grants from the Rockefeller Foundation.

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CHEMISTRY

Research on the mechanism of chemical reactions is being extended to enzymatic reactions. This development has received some financial help from the Nuffield Foundation.

Construction of the new light storey has proceeded during the session.

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Pt IV. Description and analysis of the near-ultraviolet absorption spectra of acetylene and dideuteroacetylene: nature of the excited state. *Ibid.*, 2725–44.

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EUGENICS, BIOMETRY, AND GENETICS

Work has been continued on a number of statistical problems, including the preparation of life tables for birds from data on ringing,

the accuracy of communication in bees, and exact tests for randomness of mating in populations.

Studies on the genetics and embryology of the skeleton of the mouse have been continued, and an investigation of the genetic structure of inbred strains of mice has been carried out. Work on the pathology of the labyrinth of three mouse mutants has been completed, and variations in the presphenoid bone of the mouse have been studied. Work on the fidget gene and on the influence of diet on the skeleton of the mouse is continuing.

The discovery of parthenogenesis in a live-bearing fish, *Lebistes reticulatus*, has been confirmed; over 100 fatherless fish have now been born, and the nature of the process concerned is being investigated. Another fertile newt species hybrid has been obtained, and cytological analysis of this material by Professor H. G. Callan of St Andrews shows that all newt species examined differ by translocations.

The effects of inbreeding on *Drosophila subobscura* are being examined in detail. These include slower development, shorter life, and infertility both of females and males.

THE GALTON LABORATORY.—Investigations into the phenomena of human genetics are continuing, using a large variety of techniques and paying special attention to the interactions of heredity and environment.

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GEOLOGY

Investigation of the geology of a critical area of granitic and metamorphic rocks in Northern Norway, twenty miles south of Bodö, was undertaken in the summer of 1953, when a team of four from the department spent two months in the field. The co-operation of Norwegian geologists and friends in Bodö assisted greatly the work in this rather remote area.

In the field of micropalaeontology research on the British Mesozoic faunas and correlation with their equivalents on the Continent has been actively continued.

Good progress has also been made in the large programme of

research by Dr J. G. Capewell into the Old Red Sandstone of Southern Ireland. A useful contribution was made by a party of students who spent several months field mapping in the summer of 1953 and plans for a similar party in 1954 have been made.

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HISTORY AND PHILOSOPHY OF SCIENCE

The staff and senior students have continued research on various aspects of the history and philosophy of science. The decision to establish a Momber Scholarship for research in this subject is a welcome development.

Professor H. Dingle has been appointed Vice-President of the International Union for the History of Science.

PUBLICATIONS

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Underwood, E. A. (Editor), *Science Medicine and History. Essays on the Evolution of Scientific Thought and Medical Practice Written in Honour of Charles Singer*. London: Geoffrey Cumberlege, Oxford University Press, 1953. 2 vols, xxix+563, viii+646 pp.

MATHEMATICS

In pure mathematics research has continued on various aspects of the theory of numbers and on problems in the theory of series. In applied mathematics research has been conducted into problems of fluid motion and elasticity.

An important event has been the appearance in July 1954 of Part 1 of *Mathematika*, a new journal published by the department and devoted to original notes and memoirs on mathematics and its applications. The creation of this journal is a step towards meeting the grave shortage of journal space which at present handicaps mathematicians, and, more especially, the younger mathematicians.

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A note on a theorem of Macbeath. *Ibid.*, 29 (1954), 133–43.
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PHYSICS

Most of the re-arrangements consequent on the availability of the new space and facilities in the new Physics building, which was completed during the session, have been carried out. Despite the disorganization necessarily associated with the transfer of complicated experimental apparatus from one site to another, the research programme has continued to develop along the lines indicated in the previous report.

A grant has been made by the University Grants Committee to enable an electronic computing machine which is to be constructed by Dr A. D. Booth of Birkbeck College to be sited in the department.

PUBLICATIONS

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PSYCHOLOGY

A grant has been made by the Nuffield Foundation for a study of

skill on heavy manual tasks to be carried out jointly by the Departments of Physiology and Psychology, and Professor R. W. Russell has received a grant from the Medical Research Council for further development of work on the disorganization of behaviour under stress.

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STATISTICS

Research continues on the lines indicated last year. June 1954 has seen the publication of two works of mathematical tables with which the department has been concerned over a number of years. In the more general mathematical field, A. J. Thompson's *Logarithmetica Britannica*, the table of twenty-figure logarithms for which computation started in 1922 to commemorate the tercentenary of the issue of Henry Briggs' *Arithmetica Logarithmica*, is now published in two final volumes. On the statistical side a long story of co-operative work has been rounded off in the publication of Volume 1 of *Biometrika Tables for Statisticians*, involving a complete recasting of earlier work.

PUBLICATIONS

ABDEL-ATY, S. H., Tables of generalized k-statistics. *Biometrika*, 41 (1954), 253–60.

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PLEASE, N. W., Estimation of the variance of the data used in the calculation of dissociation constants. (App. to paper by J. H. Ashby, E. M. Crook, and S. P. Datta.) *Biochem. J.*, 56 (1954), 196–8.

ZOOLOGY

Work in the department covers a wide range of research interests. The phenomenon of acquired tolerance to tissue grafts (which allows living grafts to survive transplantation between unrelated animals) has been the subject of further systematic study, and cognate work has made it possible to identify the anatomical seat of the normal immunological response to grafts.

With the technical help of a preparator, palaeontological research is making rapid progress. Among the principal problems under investigation are the ancestry of crocodiles, the problems of tooth succession in mammal-like reptiles, and the ' palaeoecology ' of Upper Triassic fissure faunas of the Bristol Channel area.

Work in genetical biology includes a new investigation of hybrid vigour, and of the causes of skeletal variability in inbred strains of mice. The subjects of behaviour studies include mice, octopus, sea-anemones, and lugworms. In embryology, research is in progress on regenerative capacity and compensatory hyperplasia in Amphibia; in gerontology, investigation is being made into ageing phenomena in fish and crustaceans.

PUBLICATIONS

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FACULTY OF ENGINEERING

CHEMICAL ENGINEERING

Steps have been taken to develop the biological aspects of chemical engineering by procuring equipment for preparation of various substances. A start has been made on the production of co-enzyme A from yeast, and a 100 gallon stainless steel pan and 24 inch diameter stoneware filter have been purchased. A 5 to 30 gallon per hour ' Metafilter ' has been given to the department by the Metafiltration Co. Ltd.

For general experimental purposes Messrs W. J. Fraser and Company Ltd, have kindly lent the department on long term loan a 6 inch still with 50 gallon jacketed pan and a 30 gallon stainless steel autoclave suitable for about 20 atmospheres pressure.

Research work has been done on the design of flanged joints and Messrs de Havilland Propellors Ltd, have kindly presented a 25 channel type bridge for strain gauge measurements.

The Gas Council have decided to make their scholarships available in the department and the first scholar is now working on the effect of pulsating flow on heat transmission.

The Practice School for our students at Shell Haven Petroleum Oil Refinery is being developed and is becoming an established method of engineering training.

Research is continuing and includes work on flame radiation, electrostatic mineral separation, uneven distribution in packed towers, heat transmission in boiling fluids, and jet structure.

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CIVIL AND MUNICIPAL ENGINEERING

CONCRETE TECHNOLOGY.—The work on vibration of fresh concrete has been almost completed. A study is being made of the application of the Ultrasonic Pulse technique for measuring the extent of damage to concrete caused by fire. An investigation into the effect of sustained stress on the elastic modulus of concrete has been started. Preliminary work has included the determination of the effect of temperature change on the dynamic elastic modulus. A course of eleven public lectures on Prestressed Concrete was attended by about 200 people, mostly practising engineers.

PHOTOELASTICITY.—Research is being carried out on several important industrial problems, including investigations into the stresses in various aircraft components, in boiler drums, and in prestressed concrete.

PUBLIC HEALTH.—Research on the dewatering of sewage sludge has been continued. Important progress has been made in the method of measurement of sludge filterability, the influence of particle size on filterability, the aerate digestion of sludge, and the utilization of sludge.

Work has also been started on the mechanical flocculation of suspended solids as an aid to sedimentation, and the penetration of dirt in rapid sand filters.

SOIL MECHANICS.—Work has been continued on the determination of the load-deformation characteristics of compacted sand-clay mixtures using the motorized triaxial compression apparatus, with a view to their application to pavement design. Comparisons have been made with the results of California bearing ratio tests.

STRUCTURES.—Analytical work has been continued on the economic proportioning of containers of steel and reinforced concrete, and preliminary experimental work has been done on the application

of photogrammetric methods to the elastic deformations of plates and tank walls. A structural framed girder and steel plate test bed has been completed and will form the basis of an experimental investigation into the effect of gusset plate size on stresses and deflection.

A new steel test frame is now available for tests on various beams of reinforced concrete, on which it is proposed to investigate the influence of the tension and compression zones in a beam cross-section on the magnitude of the bond stress of lateral bars, a problem which arises in structures which are reinforced in two directions. Work also continues on the application of the internal electric strain guage technique to the measurement of bond stress, in particular to the influence of concrete cover and the bore of the tube.

SURVEYING AND PHOTOGRAMMETRY.—The new photogrammetric plotter mentioned in the previous report is now complete, and is being adjusted prior to working tests.

Research on the optical aberrations in aircraft windows due to temperature gradients and turbulent air-flow has continued through the year, and results obtained have been encouraging.

The first course leading to the Diploma in Photogrammetry has been completed and was attended by students from several Asian countries under the Colombo Plan for aid to South-East Asia.

TRAFFIC ENGINEERING.—Two investigations have been started during the session: (*a*) on the capacity of footways, in which observations have been made to determine the speed-flow-width relationship for one-way movement in level passages; and (*b*) on car parking in shopping centres in which the number of shoppers' cars at various sites has been related to the shopping facilities.

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R. W. Chapman and J. B. Mackie, *Elements of Astronomy for Surveyors. Ibid.*, Pt. iv (1953), 265–6.
Hydrographic Dept., Admiralty, *Tables of Computed Altitude and Azimuth. Empire Survey Review*, 12, No. 92 (1954), 278–9.

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ELECTRICAL ENGINEERING

Research has continued on the characteristics of ferromagnetic materials at high flux densities and on a variety of microwave problems. This work has received financial support from the Paul Fund of the Royal Society, the Department of Scientific and Industrial Research, the Electrical Research Association, the Ministry of Supply, and the Admiralty.

Some valuable new equipment has been acquired in the pursuit of these investigations, and in some cases the electrical industry has helped by lending apparatus for the work. Lack of accommodation has presented difficult problems, but the acquisition of an additional research laboratory in Foster Court and the permission to use the South Wing corridor for experiments on long waveguides have been of great assistance.

Through the good offices of Dr Willis Jackson, Director of Research and Training, Metropolitan-Vickers Co. Ltd, arrangements were made for Dr A. L. Cullen to work with that firm in Manchester for five months and gain practical experience while designing a proton accelerator. This form of collaboration with industry, a novel one, was undertaken as an experiment and has already proved of great value to all concerned.

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PARR, J. C., Matching discontinuities in waveguide. *Wireless Engr*, 30, No. 10 (1953), 243–9.

MECHANICAL ENGINEERING

The first portion of a research on the hydraulics of surge tanks has been completed. It is now proposed to examine the action of surge tanks placed on the downstream side of a turbine.

A dual-fuel internal combustion engine has been installed; also a two-stage axial flow compressor and wind tunnel.

PUBLICATION

JACKSON, K. L., *The Solution of Problems in Engineering Drawing and Projective Geometry*. London: Pitman and Sons, 1954. 52 pp.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Research has continued on various aspects of the nervous system, including electron microscopic study of the internal structure of nerve cells and of their synapses. There have been active meetings for the discussion of the work of the staff and visiting investigators. Much work has been done on the estimation of collagen in various tissues and during the healing of wounds. Embryological studies have continued to make special use of experiments on development of the chick and on the behaviour of groups of cells under various conditions in tissue culture.

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BIOCHEMISTRY

A few students were accepted for the new B.Sc.(Special) Degree course in Biochemistry and began work in their ancillary subjects. Now that the course is more widely known, a considerable number of candidates has applied and a promising group has been selected for entry in 1954.

Research on the physico-chemical properties of biologically important compounds has been considerably developed, and that on comparative biochemistry continued. Acquisition of a high speed centrifuge has greatly facilitated work on the metabolism of mitochondria.

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Quantal components of the end-plate potential. *Ibid.*, 560–73.
Statistical factors involved in neuromuscular facilitation and depression. *Ibid.*, 574–85.
Changes in end-plate activity produced by pre-synaptic polarization. *Ibid.*, 586–604.
The membrane change produced by the neuromuscular transmitter. *Ibid.*, 125 (1954), 546–65.
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PHARMACOLOGY

Research has continued on the release of the antidiuretic pituitary factor and its excretion in urine. The rate of inactivation of the antidiuretic hormone by liver and kidney has been measured *in vitro* and *in vivo*. A method for studying the effect of inhibitors of gastric secretion and quantitative methods for assessing the effect of drugs on the human uterus have been worked out. Investigations were carried out on the mechanism of histamine release and on the way histamine is combined with intracellular particles. Studies on quantitative drug antagonism have continued. The effect of drugs on memory and learning, motor behaviour, flicker fusion frequency, and time perception, has been studied. Some of this work was carried out in collaboration with the Departments of Biochemistry and Psychology and the Obstetric Unit of University College Hospital.

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PUBLICATIONS

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APPENDIX I

COLLEGE COMMITTEE

	*Attendances**
Chairman: The Right Hon. Lord Cohen	6–7
Treasurer: Sir Frederick James, O.B.E.	6–7
Sir Wallace Akers, C.B.E., D.SC., F.R.I.C., F.R.S.A., F.C.S.	2–7
Arthur Brian Ashby, M.A.	3–7
Mrs Irene Chaplin, B.A., J.P.	3–7
The Right Hon. Lord Cromer	2–7
Professor H. Davenport, M.A., SC.D., F.R.S.¶	4–4
Miss Florence N. David, D.SC.¶	4–4
Professor M. B. Donald, M.SC., F.R.I.C., M.I.CHEM.E., A.R.C.S.	7–7
P. Dunsheath, C.B.E., M.A., D.SC., D.ENG., M.I.E.E.	5–7
B. Ifor Evans, M.A., D.LIT., *Provost*†	6–7
Professor R. C. FitzGerald, LL.B., F.R.S.A.	7–7
R. E. Gibbs, D.SC., F.INST.P.§	3–3
David Heron, M.A., D.SC.†	5–7
Professor A. V. Hill, C.H., O.B.E., SC.D., LL.D., D.SC., M.D., F.R.S.‡	2–7
Professor S. E. Hollingworth, M.A., D.SC.§	2–3
A. S. Holness, F.I.A.	3–7
Professor R. A. Humphreys, O.B.E., M.A., PH.D.	7–7
L. Hilary Macklin, O.B.E., M.A.	6–7
E. K. Martin, M.B., M.S., F.R.C.S.†	5–7
T. A. L. Paton, B.SC., M.I.C.E., M.AM.SOC.C.E.†	1–7
S. W. C. Phillips, B.A.¶	3–4
F. J. Stephens, B.A.	4–7
Miss Phyllis Woodham-Smith¶	3–4
Miss Etheldreda Wickers, B.A., A.C.P.§	3–3
Professor G. L. Williams, M.A., LL.D.§	3–3
R. McKinnon Wood, O.B.E., M.A.	0–7
Professor J. Z. Young, M.A., F.R.S.	6–7

* The two figures indicate respectively the number of times that the member attended, and the number of times that he was summoned to a meeting of the Committee during the year 1 October 1953 to 30 September 1954. † Fellow of the College. ‡ Hon. Fellow of the College. § Membership terminated before 30 September 1954. ¶ Appointed after 1 October 1953.

APPENDIX II

PROFESSORIAL BOARD

Chairman: B. Ifor Evans, M.A., D.LIT., Provost†

C. W. Allen, D.SC., Perren Professor of Astronomy

G. C. Allen, M.COM., PH.D., Professor of Political Economy

A. J. Ayer, M.A., F.B.A., Grote Professor of Philosophy of Mind and Logic

Ernest Baldwin, PH.D., Professor of Biochemistry

H. E. M. Barlow, B.SC.(ENG.), PH.D., M.I.E.E., M.I.MECH.E., Pender Professor of Electrical Engineering†

H. Hale Bellot, M.A., Commonwealth Fund Professor of American History†

O. L. Brady, D.SC., D.I.C., F.R.I.C., Reader in Organic Chemistry

F. Brailsford, B.SC.(ENG.), PH.D., M.I.E.E., Professor of Electrical Engineering

G. L. Brown, C.B.E., M.SC., M.B., CH.B., F.R.S., Jodrell Professor of Physiology

A. B. C. Cobban, M.A., PH.D., Professor of French History

W. M. Coldstream, C.B.E., Slade Professor of Fine Art†

H. J. Collins, M.C., M.SC., M.I.C.E., M.I.MECH.E., P.P.I.STRUCT.E., A.M.AM.SOC.C.E., Chadwick Professor of Civil Engineering

H. O. Corfiato, S.A.D.G., F.S.A., F.R.I.B.A., HON.F.I.B.D., Professor of Architecture

H. C. Darby, O.B.E., M.A., PH.D., Professor of Geography

H. Davenport, M.A., SC.D., F.R.S., Astor Professor of Mathematics

Florence N. David, D.SC., Reader in Statistics

W. R. Dean, M.A., Goldsmid Professor of Mathematics

H. Dingle, D.SC., D.I.C., A.R.C.S., Professor of History & Philosophy of Science

M. B. Donald, M.SC., F.R.I.C., M.I.CHEM.E., A.R.C.S., Ramsay Memorial Professor of Chemical Engineering

W. E. Duncanson, PH.D., D.SC., Reader in Physics

W. B. Emery, M.B.E., M.A., F.S.A., Edwards Professor of Egyptology

R. C. FitzGerald, LL.B., F.R.S.A., Professor of English Law

Daryll Forde, PH.D., Professor of Anthropology†

L. W. Forster, M.A., DR.PHIL., Professor of German

D. B. Fry, PH.D., Reader in Experimental Phonetics

A. H. Gerrard, Professor of Sculpture

J. A. B. Gray, M.A., M.B., B.CHIR., Reader in Physiology

J. B. S. Haldane, M.A., D.SC., D.DE L'UNIV., F.R.S., Weldon Professor of Biometry

Sir William Holford, M.A., F.R.I.B.A., M.T.P.I., F.I.L.A., Professor of Town Planning

S. E. Hollingworth, M.A., D.SC., Yates-Goldsmid Professor of Geology

E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S., Professor of Chemistry†

R. A. Humphreys, O.B.E., M.A., PH.D., Professor of Latin American History

C. K. Ingold, D.SC., F.R.S., Professor of Chemistry

Raymond Irwin, M.A., F.L.A., Director of the School of Librarianship & Archives

† Fellow of the College

B. Katz, M.D., PH.D., D.SC., F.R.S., Professor of Biophysics

G. W. Keeton, M.A., LL.D., Professor of English Law

L. Margaret Kerly, M.A., PH.D., Reader in Biochemistry

B. J. Lloyd-Evans, M.SC.(ENG.), PH.D., M.I.MECH.E., Kennedy Professor of Mechanical Engineering

Kathleen Lonsdale, D.SC., F.R.S., Professor of Chemistry†

A. Maccoll, M.SC., PH.D., Reader in Chemistry

R. D. McLellan, PH.D., Senior Tutor and Senior Lecturer in Greek & Latin

H. S. W. Massey, M.SC., PH.D., F.R.S., Quain Professor of Physics

P. B. Medawar, M.A., D.SC., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy

A. D. Momigliano, M.A., D.LITT., F.B.A., Professor of Ancient History

J. E. Neale, M.A., D.LITT., F.B.A., Astor Professor of English History†

W. H. Pearsall, D.SC., F.R.S., Quain Professor of Botany

E. S. Pearson, C.B.E., M.A., D.SC., Professor of Statistics†

L. S. Penrose, M.A., M.D., M.R.C.S., L.R.C.P., F.R.S., Galton Professor of Eugenics

G. J. Renier, PH.D., PHIL.LIT.CAND., Professor of Dutch History and Institutions††

Constance M. Rigby, M.A., PH.D., Lecturer in Mathematics

C. M. Robertson, M.A., Yates Professor of Classical Art and Archaeology

R. W. Russell, M.A., PH.D., Professor of Psychology

O. Skutsch, DR.PHIL., Professor of Latin

A. H. Smith, O.B.E., PH.D., D.LIT., Quain Professor of English Language and Literature

S. Stein, PH.D., Goldsmid Senior Lecturer in Hebrew

James R. Sutherland, M.A., B.LITT., F.B.A., Lord Northcliffe Professor of Modern English Literature

H. Terrey, B.SC., Professor of Chemistry

E. H. Thompson, O.B.E., B.A., Professor of Surveying and Photogrammetry

E. G. Turner, M.A., Professor of Papyrology

T. B. L. Webster, M.A., F.S.A., Professor of Greek

R. Weiss, B.A., Professor of Italian

John Wilks, M.A., F.L.A., Librarian†

G. L. Williams, M.A., LL.D., Quain Professor of Jurisprudence

F. R. Winton, M.A., M.D., D.SC., Professor of Pharmacology

R. Wittkower, PH.D., Durning-Lawrence Professor of the History of Art

B. Woledge, M.A., D.DE L'UNIV., Fielden Professor of French Language and Literature

T. L. Wren, M.A., Reader in Geometry

J. Z. Young, M.A., F.R.S., Professor of Anatomy

† Fellow of the College

APPENDIX III

ELECTION OF HONORARY FELLOW AND FELLOWS

The following elections were made in 1954:

HONORARY FELLOW

Sir Henry Thomas Tizard, G.C.B., F.R.S.

FELLOWS

Mr Walter Adams, C.M.G., O.B.E., Secretary of the Inter-University Council for Higher Education in the Colonies

Sir Thomas James Cash, K.B.E., C.B., Deputy Under-Secretary of State for War

Dr Charles Enrique Dent, Reader in Medicine, University College Hospital Medical School, and Honorary Lecturer, Department of Biochemistry, University College, London

Professor Edward David Hughes, F.R.S., Professor of Chemistry, University College, London

Dr Douglas McKie, Reader in the History and Philosophy of Science, University College, London

Mr Stanley Spencer, C.B.E., painter in oil

APPENDIX IV

RECOGNITION AS TEACHERS OF THE UNIVERSITY

The following members of the academic staff have been granted during the academic year 1953–54 Full Recognition as Teachers of the University in the subjects and in the University Faculties indicated:

G. W. S. Barrow	History (Arts)
H. Billett	Mechanical Engineering (Engineering)
M. de B. Daly	Physiology (Medicine and Science)
P. G. Foote	Scandinavian Languages (Arts)
L. Fowden	Plant Biochemistry (Science)
D. J. Furley	Latin and Greek (Arts)
N. H. de V. Heathcote	History and Philosophy of Science (Science)
A. G. Ling	Town and Country Planning (Arts)
W. S. Norman	Chemical Engineering (Engineering)
D. A. Sholl	Anatomy (Medicine and Science)
C. Smith	French Literature (Arts)
W. Townsend	Theory and Practice of Drawing and Painting (Arts)
G. P. Youngman	Town and Country Planning (Arts)

APPENDIX V

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Resignations: H. A. Powell, B.A. (Assistant Lecturer), to Lectureship at the University of Durham.
Margaret A. Littlewood, B.A. (Research Assistant).

ARCHITECTURE

Appointment: T. F. A. Manning, B.A., A.R.I.B.A. (Assistant Lecturer).

Resignation: G. A. Crockett, B.A., F.R.I.B.A., A.M.T.P.I., F.R.S.A. (Part-time Lecturer).

EGYPTOLOGY

Resignation: Violette C. Lafleur (Honorary Museum Assistant).

ENGLISH

Appointment: C. H. Peake, B.A. (Assistant Lecturer, formerly Part-time Assistant).

Resignations: H. Jenkins, M.A., D.LITT. (Reader), on appointment to the Chair of English at Westfield College.
C. R. Quirk, M.A., PH.D. (Lecturer), to Readership in the University of Durham.
G. S. Ivy, M.A., PH.D. (Assistant Lecturer), to Lectureship in the University of Durham.
Rosemary A. Sisson, M.A., M.LITT. (Assistant Lecturer), to Lectureship at the University of Birmingham.

FINE ARTS

Resignation: M. W. L. Kitson, M.A. (Part-time Assistant), to appointment at the Courtauld Institute of Art.

GEOGRAPHY

Appointment: D. M. Ricks, B.A. (Assistant Lecturer), formerly student of the College.

Resignations: W. P. Packard, M.A. (Lecturer and Assistant Tutor), to Lectureship at Canterbury University College, New Zealand.
W. D. Pattison, PH.B., M.A. (Lecturer), returning to Indiana University, U.S.A.

GERMAN

Appointment: D. G. Mowatt, B.A. (Assistant Lecturer), formerly employed by the Foreign Office.

GREEK

Appointment: M. G. F. Ventris, D.PHIL., F.S.A., A.R.I.B.A. (Honorary Research Associate).

HEBREW

Appointment: G. Weisz, M.A. (Assistant Lecturer), formerly student of the College.

HISTORY

Appointment: J. R. Pole, B.A., PH.D. (Assistant Lecturer, American History), from Princeton University, U.S.A.

ITALIAN

Appointment: G. Aquilecchia, DOTT.LETT. (Assistant Lecturer), formerly Assistant at Manchester University.

LIBRARIANSHIP AND ARCHIVES

Retirement: J. A. Wilks, M.A., F.L.A. (Assistant Director).

Resignation: D. L. Evans, O.B.E., B.A., B.LITT. (Lecturer), to appointment as Deputy Keeper of the Records, Public Record Office.

PHILOSOPHY

Appointments: A. H. Basson, B.A. (Assistant Lecturer), formerly student of the College.

J. L. Watling, PH.D. (Assistant Lecturer, formerly Part-time Assistant).

Resignation: S. V. Keeling, M.A., D.LIT., D.ÈS L. (Reader).

POLITICAL ECONOMY

Appointments: L. S. Pressnell, B.SC.(ECON.), PH.D. (Lecturer), from University College of the South West, Exeter.

D. Berry, B.SC.(ECON.) (Research Assistant).

Margaret J. Jablonowski, M.A., PH.D. (Research Assistant).

D. Rimmer, B.A. (Research Assistant), from University of Durham.

Resignations: J. Lanner, B.SC.(ECON.) (Lecturer), to appointment with the Organisation for European Economic Co-operation.

Patricia A. Nicholson, B.A. (Lecturer), to appointment as Research Assistant in Historical Section of the Cabinet Office.

A. Kay, B.SC.(ECON.) (Research Assistant), to Assistant Lectureship at Sheffield University.

SCANDINAVIAN STUDIES

Appointment: E. Benedikz, CAND.PHIL. (Honorary Lecturer).

Resignation: Y. B. Olsson, FIL.LIC. (Crown Princess Louise Lecturer in Swedish).

FACULTY OF SCIENCE

BOTANY

Appointment: D. L. Dewey, M.A., PH.D. (Research Assistant), transferred from Civil and Mechanical Engineering.

Resignations: E. Gorham, M.SC., PH.D. (Lecturer), to appointment with the Freshwater Biological Association of the British Empire.

J. Heslop Harrison, M.SC., PH.D., F.R.S.E. (Lecturer), appointed to Chair of Botany, Belfast University.

Yolande Heslop Harrison, PH.D. (Assistant Lecturer).

CHEMISTRY

Appointments: A. G. Davies, PH.D. (Lecturer), from Battersea Polytechnic.

G. W. King, PH.D. (Assistant Lecturer).

H. Judith Grenville-Wells, M.SC., PH.D. (Honorary Research Associate), from Massachusetts Institute of Technology.
T. Iredale, D.SC. (Honorary Research Associate).

Retirement: C. R. Bailey, T.D., B.A., D.SC. (Reader).

GEOLOGY

Resignation: J. T. Temple, M.A., PH.D. (Assistant Lecturer), to Assistant Lectureship at Bedford College, London.

MATHEMATICS

Appointment: L. Few, PH.D. (Assistant Lecturer), formerly research student of the College.

Retirement: T. L. Wren, M.A. (Reader in Geometry).

Resignation: C. A. Rogers, D.SC. (Reader), appointed to Mason Chair of Pure Mathematics at Birmingham University.

PHYSICS

Appointment: P. Astbury, M.A., PH.D. (Honorary Research Associate).

Resignation: G. Stephenson, PH.D., D.I.C. (Honorary Research Associate), to Lectureship at Imperial College of Science and Technology, London.

PSYCHOLOGY

Appointments: D. A. Pond, M.D., M.R.C.P., D.P.M. (Part-time Lecturer).
R. T. Green, B.SC. (Assistant Lecturer), from University of Indiana.
K. Soddy, M.D., D.P.M. (Honorary Lecturer).

Resignation: K. M. Miller, B.A., PH.D. (Assistant Lecturer), to Lectureship at the University of Tasmania.

STATISTICS

Resignation: H. O. Hartley, D.SC., PH.D. (Lecturer), appointed to a Chair of Statistics at Iowa State College, U.S.A.

ZOOLOGY

Resignation: Pauline Whitby, B.A. (Lecturer), to Medical Research Council Human Nutrition Unit, London School of Hygiene and Tropical Medicine.

FACULTY OF ENGINEERING

CIVIL AND MUNICIPAL ENGINEERING

Appointment: Wendye E. Johnston (Research Assistant).

Resignation: P. Coackley, B.SC., PH.D. (Research Assistant), to King's College, Newcastle.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: R. W. Guillery, PH.D. (Assistant Lecturer), formerly student of the College.
R. W. G. Wyckoff, PH.D., M.D., SC.D., FOR.MEM.R.S. (Honorary Research Associate).

Resignations: M. H. Flint, M.B., B.S. (Assistant Lecturer), to clinical work.
Ursula E. Henderson, M.B., B.S., M.R.C.S., L.R.C.P. (Assistant Lecturer).

B. Lytton, M.B., B.S., M.R.C.S., L.R.C.P. (Assistant Lecturer).
J. G. Murray, M.B., CH.B., F.R.C.S. (Assistant Lecturer), awarded Medical Research Council Fellowship tenable at Royal College of Surgeons.

BIOCHEMISTRY

Appointments: E. M. Shooter, M.A., PH.D. (Lecturer).
Patricia H. Clarke, B.A. (Assistant Lecturer).
K. Rees, M.SC., PH.D. (Assistant Lecturer).
J. E. Falk, M.SC., PH.D. (Honorary Lecturer).
A. K. Grzybowski, B.SC. (Research Assistant).

BIOPHYSICS

Appointment: A. R. Martin, M.SC. (Research Assistant), formerly research student of the College.

PHARMACOLOGY

Resignation: W. D. M. Paton, M.A., D.M. (Reader), to appointment as Professor of Pharmacology in the Royal College of Surgeons.

PHYSIOLOGY

Appointment: Brenda E. Moralee, B.SC. (Research Assistant).

Resignation: H. E. Lewis, B.SC., M.B., CH.B. (Lecturer), to National Institute of Medical Research.

APPENDIX VI

SPECIAL LECTURES

A.—PUBLIC LECTURES

ENDOWED LECTURES

COMMONWEALTH FUND LECTURES

Professor C. Vann Woodward, Johns Hopkins: 'Southern History and American Legend' (eight lectures)

NEWMARCH LECTURES IN ECONOMIC STATISTICS

Professor E. Devons, Manchester: 'Economic Statistics as a Language', 'Economic Statistics and Economic Policy', 'The Terms of Trade' (four lectures)

LORD NORTHCLIFFE LECTURES IN LITERATURE

Mr V. S. Pritchett: 'The Comic Element in the English Novel' (four lectures)

SETON MEMORIAL LECTURE

Professor E. F. Jacob, Oxford: 'Johannes de Rupescissa—Prophet and Alchemist'

SHEARMAN LECTURES

Professor W. V. Quine, Harvard: 'Logical Form and Subject Matter' (four lectures)

INAUGURAL LECTURES

Professor A. B. C. Cobban, Professor of French History: 'The Myth of the French Revolution'

Professor R. C. FitzGerald, Professor of English Law: 'The Role of the Solicitor in Modern Society'

LUNCH-HOUR LECTURES

Professor G. C. Allen: 'Western Enterprise in Far Eastern Economic Development'

Mr C. P. Andren: 'Urban Road Traffic Control'

Mr A. J. Arkell: 'Petrie and his Egyptological Collection'

Mr D. V. Arnold: 'Libraries: Some Problems in Communication'

Professor H. E. M. Barlow: 'Telecommunications: the Achievements of the Past and the Hopes for the Future'

Miss Marguerite Chapallaz: 'Three Italian Novelists: Pavese, Piovene, and Viganò'

Mr I. R. Christie: 'Parties and General Elections in the Later Eighteenth Century'

Mr M. Coffey: 'Imagery and Meaning in Latin Poetry'

Dr M. Mary Douglas: 'Primitive Medicine among the Lele of the Belgian Congo'

Mr W. A. Eden: 'Marble Hill House, Twickenham: an English Palladian Villa'

Professor W. B. Emery: 'Excavations at Sakkara (Egypt) in 1953'

Mr R. H. Garstang: 'Life on Other Worlds'

Dr Lilian F. Haddakin: 'Poetry and Common Life in the Nineteenth Century'

Professor J. B. S. Haldane: 'The Physiology of Diving'

Dr J. Heslop Harrison: 'The Origin of the British Flora'

Mr J. H. Kells: 'The Social Condition of Women in Classical Athens'

Mr A. G. Ling: 'The London Skyline'

Mr P. Long: 'Fatalism'

Professor Kathleen Lonsdale: 'Crystallography, Ancient and Modern'

Dr D. McKie: 'Science in Seventeenth-Century London'

Dr W. R. Mead: 'Pehr Kalm's Journey to North America (1748–1751)'

Dr Randolph Quirk: 'Careless Talk: Some Features of Everyday Speech'

Professor C. M. Robertson: 'Greek Painting'

Dr W. Schwarz: 'Principles of Biblical Translation'

Mr D. A. Sholl: 'The Anatomist and the Brain'

Mr J. Maynard Smith: 'Mendel, Michurin and Hybrid Vigour'

Dr T. J. B. Spencer: 'Shakespeare among the Victorians'

Dr L. W. Tancock: 'The Perfect Synthesis: Manon Lescaut'

Dr J. L. Watling: 'Is it Possible for Us to Know the Future?'

Professor D. M. S. Watson: 'Africa and the Origin of Man'

Professor R. Weiss: 'Machiavelli'

Mr G. Weisz: 'Some Aspects of Kabbalistic Literature'

Mr H. Warren Wilson: 'Some Aspects of Stained Glass Design'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

ARCHAEOLOGY

Professor Pierre Amandry, Strasbourg: 'Les statues chryséléphantines de Delphes'

ARCHITECTURE

Mr S. E. Dykes Bower, Surveyor of the Fabric of Westminster Abbey: 'Westminster Abbey and its Restoration' (two lectures)

BIOCHEMISTRY

Professor Jean Brachet, Brussels: 'The Role of Ribonucleic Acid in Morphogenesis'

Dr H. Gutfreund, Cambridge: 'Molecular Forces in Protein Solutions' (two lectures)

Professor F. Lynen, Munich: 'The Participation of Coenzyme A in the Metabolism of Fat'

ELECTRICAL ENGINEERING

Dr P. C. Clemmow, Cambridge: 'Diffraction of Electromagnetic Waves' (four lectures)

HISTORY

Professor C. R. Boxer, King's College, London: 'Admiral M. H. Tromp and the First Anglo-Dutch War'

ITALIAN

Professor G. Devoto, Florence: 'La formazione della lingua letteraria italiana nel quadro della società medievale'

LAWS

Dr E. Hambro, formerly Registrar of the International Court of Justice: 'The Reasons behind the Decisions of the International Court of Justice'

PHARMACOLOGY

Professor F. Bergel: 'Some Chemical Aspects of Abnormal Growth' (two lectures)

Dr W. S. Feldberg: 'On Some Physiological Aspects of Histamine'

Professor Werner Koll, Medizinische Forschungsanstalt, Max Planck Gesellschaft, Göttingen: 'Experimental Studies on Analgesics—Tooth Stimulation and Other Methods'

Professor John Pappenheimer, Harvard Medical School: 'A Theory for Renal Haemodynamics'

PHILOSOPHY

Professor Euryalo Canabrava, Rio de Janeiro: 'The Limitations of Analytical Philosophy' (two lectures)

COMMUNICATION RESEARCH CENTRE LECTURES

Professor A. J. Ayer: 'What is Communication?'

Dr E. C. Cherry, Imperial College of Science and Technology: ' "The Theory of Communication"—and Human Behaviour'

Dr D. B. Fry: 'The Experimental Study of Speech'

Professor J. B. S. Haldane: 'Communication as a Biological Phenomenon'

Sir Geoffrey Vickers, National Coal Board: 'Communication in Economic Systems'

Professor T. B. L. Webster: 'Communication of Thought in Ancient Greece'

Professor R. Wittkower: 'Interpretation of Visual Symbols'

B.—A SELECTION OF LECTURES GIVEN OUTSIDE THE COLLEGE BY MEMBERS OF THE STAFF

Professor E. Baldwin (Biochemistry): 'Biochemistry and Parasitism'—Bedson Lecture, King's College, Newcastle-upon-Tyne.

Professor Daryll Forde (Anthropology): 'The Cultural Map of West Africa'—Stephenson Lecture at Bedford College, London.

Dr D. B. Fry (Phonetics): 'Perception and Recognition in Speech', 'Mechanical Speech Recognition'—Two public lectures in the University of Oxford.

Professor S. E. Hollingworth (Geology): 'Geology and Climate'—Abbott Memorial Lecture, University of Nottingham.

Professor R. A. Humphreys (History): 'William Robertson and his *History of America*'—the first Canning House Annual Lecture.

Professor C. K. Ingold (Chemistry): Presidential Address to the Chemical Society.

Professor Kathleen Lonsdale (Chemistry): 'Security and Responsibility'—Alexwood Memorial Lecture, Oxford.

Professor P. B. Medawar (Zoology): 'Wound Healing'—Almroth Wright Memorial Lecture, St Mary's Hospital, London.

Professor R. Weiss (Italian): 'Savonarola and the Renaissance'—The Herford Memorial Lecture, Manchester Dante Society.

Professor J. Z. Young (Anatomy): 'The Eye and the Brain'—Owen Aves Memorial Lecture, Yorkshire Optical Society.

'Form Discrimination and Memory in Octopus'—Michael Perkins Memorial Lecture, University of Cambridge.

'The Evolution of Vertebrate Organization'—William Smith Lecture, Geological Society of London.

APPENDIX VII

NUMBERS OF STUDENTS, SESSION 1953–54

Faculty of Arts:	*Under-graduates*	*Post-graduates*	*Totals*
(*a*) General	748 (287)	182 (66)	930 (353)
(*b*) Department of Political Economy	111 (3)	17 (1)	128 (4)
(*c*) Slade School of Fine Art	246 (34)	— (—)	246 (34)
(*d*) Bartlett School of Architecture	175 (5)	3 (3)	178 (8)
(*e*) Department of Town Planning	97 (93)	30 (28)	127 (121)
(*f*) School of Librarianship and Archives	16 (16)	33 (2)	49 (18)
Faculty of Science	578 (49)	323 (103)	901 (152)
Faculty of Medical Sciences	233 (44)	5 (1)	238 (45)
Faculty of Engineering	256 (63)	89 (8)	345 (71)
Faculty of Laws	348 (119)	61 (4)	409 (123)
	2,808 (713)	743 (216)	3,551 (929)

The figures in brackets indicate the number of part-time students which are included in the total under each head.

APPENDIX VIII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1953–54

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM			
London	366	122	488
Home Counties (30-mile radius)	1,004	249	1,253
Remainder of United Kingdom	1,029	159	1,188
BRITISH COMMONWEALTH OF NATIONS			
Australia	11	8	19
Canada	10	18	28
Ceylon	5	8	13
India	46	45	91
Kenya	9	1	10
Malaya	15	—	15
Nigeria	17	6	23
Pakistan	9	10	19
South Africa	15	8	23
Other Countries	42	15	57
OTHER PARTS OF THE WORLD			
Egypt	9	25	34
France	47	1	48
Germany	14	3	17
Iraq	5	7	12
Norway	14	1	15
Switzerland	10	—	10
United States of America	35	23	58
Other Countries	96	34	130
Totals	2,808	743	3,551

SUMMARY

United Kingdom	2,929
British Commonwealth of Nations ..	298
Other Parts of the World	324
	3,551

APPENDIX IX

UNIVERSITY HONOURS

HIGHER DEGREES

FACULTY OF ARTS

Ph.D. *English:* G. S. Ivy. *French:* H. Clive, P. J. Penwarden. *History:* W. F. Cody, W. A. L. Seaman (and Royal Holloway College), L. M. A. W. Yehia. *Mathematics:* J. B. Tatchell. *Philosophy:* P. R. Robinson, D. Scialom, M. P. Slattery (and University of Louvain), A. Ungar, G. A. Wells. *Psychology:* L. H. Ainsworth, Eva M. Bene, Aydin Cankardas, K. M. Miller, W. A. Norton, K. U. Rao, B. A. Wysocki. [19]

M.A. *Anthropology:* E. B. Ndem. *Classics:* J. W. Spurgeon. *English:* Ksenija Anastasijevic, M. R. Booth, June Derrick, Mary C. Edwards, E. G. McGehee, Joan R. Sargent, Irene Shubik. *Geography:* H. C. Prince (Mark of Distinction), R. J. Rice. *German:* C. A. H. Russ. *Hebrew and Aramaic:* F. Horovitz. *History:* R. C. Gabriel (Mark of Distinction). *Psychology:* Mary H. Thomas, Fay L. Young. [16]

FACULTY OF ECONOMICS

Ph.D. Margaret J. Wray. [1]

M.Sc. B. K. Bajpaie, G. C. Kean, S. K. Mukherjee, A. Salim, H. S. Sandhu, G. Talukder. [6]

FACULTY OF LAWS

Ph.D. J. L. J. Edwards, E. Jenkins. [2]

LL.M. E. M. L. Bussier, V. F. Floissac, L. Gerber, R. J. Moshi, B. T. Tan, Elisabeth J. M. Wells. [6]

FACULTY OF SCIENCE

D.Sc. *Biochemistry:* E. C. Owen. *Chemistry:* G. J. Janz. *History and Philosophy of Science:* F. W. Gibbs. *Statistics:* K. R. Nair. [4]

Ph.D. *Anatomy:* B. G. Cragg, R. W. Guillery. *Biochemistry:* R. D. Bulbrook, Mavis M. Cragg, M. K. El-Marsafy, F. C. Greenwood. *Botany:* B. Hopkins, P. J. Newbould, Miriam Wolfe. *Chemistry:* J. S. Burgess, J. H. S. Green, P. C. Hobbins, P. A. T. Hoye, A. D. Ketley, L. F. Larkworthy, W. H. Lee. *Crystallography:* R. A. Bones, G. J. Bullen, L. Cartz, R. E. Gilbert, R. Mason. *Geology:* K. C. Burke, M. A. Latif. *History and Philosophy of Science:* P. C. Davey, M. Taslimi. *Mathematics:* A. J. Cole, A. H. Craven, L. Few, C. S. Smith. *Microbiology:* V. Moses. *Physics:* A. A. M. Ahmed, A. H. de Borde, S. H. M. El-Sabeh, A. Husain, D. Morris, J. B. H. Stedeford, M. Y. Uppal. *Psychology:* P. K. Barua, Asenath Petrie, R. H. J. Watson. *Statistics:* D. E. Barton, A. R. Kamat, B. T. Warner. *Zoology:* Ahsan-ul-Islam, M. S. Deol, Elizabeth B. Robson, R. J. G. Savage. [47]

M.Sc. *Biochemistry:* Mary Bryant, Elsie A. Burgess, B. J. Dorn, C. N. Gray more, Fatma Hassan, J. P. Heslop, Zenab A. G. Hossein, D. S. P. Patterson (and Chelsea Polytechnic), D. Walmsley. *Botany:* A. Austin. *History and Philosophy of Science:* M. P. Crosland, K. V. Hewitt, C. A. Ronan, W. A. Smeaton. *Human Biology:* Malaka Z. Roufail. *Mathematics:* Julie V. Brown (Mark of Distinction), L. M. Hocking (Mark of Distinction), M. Jackson (Mark of Distinction), A. W. Lindfield (Mark of Distinction), K. E. Pitman (Mark of Distinction), Kathleen E. Potter (Mark of Distinction), P. M. Stephenson, J. H. Wilkinson. *Microbiology:* W. G. Armstrong, A. J. D. Bellett, K. J. Bent, K. W. Fisher, Janet R. Walker. *Physiology:* P. J. Pearce. *Psychology:* Alice P. Woodrow, Pamela M. Woodrow. *Statistics:* K. E. R. Dennis. [32]

FACULTY OF ENGINEERING

Ph.D. C. G. Bradshaw, P. Coackley, E. N. Eden, F. F. Heymann, A. Karbowiak, J. Krishna, J. Moss, K. E. Robinson. [8]

M.Sc. J. C. Simmons, I. M. Stephenson. [2]

UNIVERSITY UNDERGRADUATE AWARD

Fine Art: Doris Leslie (Richardson Scholarship for Women).

UNIVERSITY SCHOLARSHIP

Laws: H. R. Keen.

UNIVERSITY STUDENTSHIPS

Engineering: A. H. Makomaski. *Fine Art:* Janet E. M. Barrett. *Geology:* W. A. Gordon. *Germanic Languages (German):* D. L. Paisey. *History:* B. Dietz, W. J. Jones (Derby Studentship), Penelope Renold. *Mathematics:* D. C. Belinfante. *Philosophy:* P. B. Downing.

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Biochemistry: Mary Bryant. *Botany:* D. W. Brett. *English:* A. A. Nye, Verona M. Taylor (renewal). *French:* Janina W. Felix, J. W. Jolliffe (renewal), Lynette R. Muir (renewal), B. J. Walker (renewal). *Geography:* H. C. Prince (Travelling Studentship). *Geology:* K. J. Ackermann. *German:* Janet R. Goodall, Ursula H. M. Scharf (renewal). *Greek:* L. Brandwood. *History:* J. H. W. G. Liebeschuetz (William Lincoln Shelley Studentship), P. J. Parish (Travelling Studentship), A. H. Smith (renewal), R. T. Spence (renewal). *Laws:* F. A. Ajayi (renewal). *Physics:* P. G. Burke, G. W. Green. *Psychology:* R. J. Audley (renewal), Joan Ray (renewal).

APPENDIX X

COLLEGE AWARDS TO STUDENTS

I.—ENTRANCE SCHOLARSHIPS

Andrews Scholarships.—Arts: Kathleen Brown (3rd Year); B. Taylor (2nd Year); D. Evans, The Grammar School, Welwyn Garden City (1st Year). *Classics:* J. Collinge (3rd Year); P. H. Durham, Rochdale Grammar School (1st Year). *Science:* A. P. Anderson (3rd Year), hon. award; D. H. Miles (2nd Year); R. J. Cole, East Grinstead County Grammar School (1st Year).

Bartlett Exhibitions in Architecture.—J. A. Browning (3rd Year); J. R. G. Thomas (3rd Year); B. D. Bagot (2nd Year); A. D. C. Hyland (2nd Year); D. G. Campion, Bradfield College (1st Year); E. R. Lane, Kingswood School, Bath (1st Year); S. J. Thorpe, Surbiton County Secondary School (1st Year).

Bucknill Medical Scholarship.—R. D. T. Jenkin (2nd Year).

Campbell Clarke Scholarship in English.—E. A. Gleave (2nd Year).

Goldsmid Scholarships.—Science: P. F. Smith (3rd Year); M. D. Hooper (2nd Year); A. P. Mainwaring, Cockburn High School, Leeds (1st Year). *Engineering:* C. R. Cratchley (3rd Year); A. Towers (2nd Year); D. Priestley, The Grammar School, Wellingborough (1st Year).

Hume-Lloyd Scholarship in Political Economy.—D. C. Bennett (3rd Year); L. Silverman (2nd Year); B. Fasey, Hele's School, Exeter (1st Year).

Laws Scholarship.—G. L. Hochfeld (3rd Year); B. S. McCarthy (2nd Year); V. L. Shebson, City of London School (1st Year).

Exhibitions in Librarianship and Archive Administration.—Evelyn M. Baker, M.A., University College London; Joan R. R. Bushnell, M.A., University of St Andrews.

Medical Scholarship.—A. J. Lupin (2nd Year).

Rosa Morison Scholarship (Arts).—Christine M. Mundy (3rd Year); Pearl M. Downer (2nd Year); J. L. M. Gulley, Battersea Grammar School (1st Year).

Alfred W. Rich Scholarship (Fine Art).—Diana E. Webbe, Camberwell School of Art (1st Year).

Shell Scholarships in Chemical Engineering.—D. M. Jones (2nd Year); P. N. Snowdon (2nd Year); J. R. Wilson (2nd Year).

Slade Scholarship.—M. R. Yeomans (3rd Year); E. P. T. Finlay (2nd Year); R. M. Hallett, Bristol Cathedral School (1st Year).

Trevelyan Goodall Art Scholarship.—R. C. Pratt (1st Year).

University College School Centenary Scholarship.—M. P. Vessey (1st Year).

Webb Scholarship.—Claudia A. B. Carasco, St Joseph's Convent, Castries, St Lucia (1st Year).

II.—OTHER SCHOLARSHIPS AND DISTINCTIONS

Anatomy Class Prizes.—Medical: H. J. L. Francis. *Dental:* P. A. Russell.

Anatomy and Physiology (B.Sc. Degree) Scholarships.—Anatomy: H. J. L. Francis; Pauline S. Monro; H. S. Platt. *Physiology:* D. J. Holdstock; B. Todd; G. L. Tullett.

Herbert Batsford Prize (Architecture).—Kathleen M. Taylor.

Bayliss-Starling Memorial Scholarship (Physiology).—O. Holmes.

Ada Heather Bigg Prize (Political Economy).—Ruth Arnstein.

Bonney Prize (Geology).—G. R. K. Hillier.

Alfred Bossom Prize in Domestic Architecture.—K. G. R. Blythe.

Alfred Bossom Atelier Prizes.—English Architecture: G. H. Blomfield. *Contemporary Architecture:* P. J. B. Vercelli.

Mary Brodrick Prize (Geography).—A. J. Lunnon.

'The Builder' Prizes (Architecture) for work done in the Long Vacation 1953.—*Senior:* R. Luker and P. C. Sugar, prize equally divided. *Junior:* M. R. Evans.

Chadwick Medal and Prize (Engineering).—J. H. Attwood.

Antonio Cippico Medal and Prize (Italian).—D. Wills.

Lilian Clarke Prize (Botany).—E. Lodge.

Clinton Prize (Electrical Engineering).—J. P. Bromley.

Cowley Prize (Librarianship).—A. R. Bonner.

Dolley Memorial Prize (History).—W. J. Jones.

Donaldson Medal and Prize (Architecture).—G. H. Blomfield.

Early English Text Society's Prize.—Margaret M. Raymond.

Esso Studentship (Chemical Engineering).—K. W. Carley-Macauly (2nd Year); J. W. L. Jenkin (1st Year).

Carey Foster Research Prize (Physics).—J. Ellis.

Foyle Prize (Latin).—T. A. Jordan.

Eleanor Grove Scholarship (German).—Janet R. Goodall.

Archibald P. Head Memorial Medal and Prize (Mechanical Engineering).—A. W. Makomaski.

Heimann Medal and Prize (German).—Jane Peskett.

Elsie Hitchcock Prize (English).—W. A. Davenport.

John Oliver Hobbes Memorial Scholarship in Modern English Literature.—J. T. Dodd and C. A. Hadland, scholarship equally divided.

Hollier Scholarship (Greek).—S. Usher (2nd Year); K. F. Johansen (1st Year).

R. B. Hounsfield Prizes.—Town Planning and Civic Engineering: K. S. Gardner. *Traffic Engineering:* C. A. W. Ramsay.

Joseph Hume Scholarship in Jurisprudence.—H. R. Keen (1st Year).

Sir George Jessel Studentship in Mathematics.—J. V. Armitage.

Jews' Commemoration Scholarship.—S. W. F. Holloway, Arts (2nd Year); C. P. McConnachie, Engineering (1st Year).

Jolowicz Prize (*Roman Law*).—B. A. Hennah.

Ker Memorial Prize (*English Language and Literature*).—E. A. Gleave.

Leverhulme Studentships in Chemical Engineering.—C. E. Fryer; F. Haslam.

Sir John Macalister Medal and Prize (*Librarianship*).—Beryl M. Fairclough.

Malden Scholarship (*Greek*).—P. Walcot.

Medical Sciences Exhibitions.—Anatomy: A. J. Bee; P. A. Lawrence; J. M. R. Ridley; R. R. Roberts; R. A. Thompson. *Physiology:* E. R. Beck; Valerie Hopkinson.

Sir William Meyer Studentship (*European History*).—H. G. Owen.

John Stuart Mill Scholarship in Philosophy of Mind and Logic.—P. R. Bridger.

Momber Scholarship in Physics.—W. A. Towlson.

Momber Scholarship in Science.—History and Philosophy of Science: M. P. Crosland.

Rosa Morison Memorial Medal and Prize (*Arts*).—J. M. Tuchner.

Rosa Morison Postgraduate Scholarship in Arts.—J. F. Hulcoop.

Rosa Morison Prizes.—French: F. Corless. *Philosophy:* J. D. Haxell. *Scandinavian Languages:* C. Iddon.

Rosa Morison Scholarship (*English Language and Literature*).—Inez B. E. Bailey (2nd Year); Catriona E. MacGowan (1st Year).

Morley Medal and Prize (*Modern English Literature*).—J. T. Dodd.

Morris Prize (*Geology*).—A. J. Martin.

Melvill Nettleship Prize (*Figure Composition*).—Maria P. F. Rego and D. M. Storey, prize divided.

Oliver Scholarship (*Botany*).—R. Knowles.

Parry Prize (*Geography*).—R. L. Heathcote.

Catherine Maude Pearce Scholarship.—Daphne Leeder.

Physiology Class Prizes.—Medical: E. R. Beck. *Dental:* Sheila J. Mayers.

Platt Prizes (*Greek*).—J. Collinge; K. G. Lodwick.

Pollard Prize (*History*).—H. G. Owen.

Quain Studentships.—English: C. H. Peake (1st Year). *Biology:* V. Moses (2nd Year).

Ramsay Memorial Medal and Prize (*Chemistry*).—M. L. E. Tobe.

Mary Rischgitz Prize (*Fine Art*).—Patricia Gerrard and Margaret J. A. Rees, prize divided.

Graham Robertson Travelling Scholarship (*Fine Art*).—Iola M. Hallward.

Robert Ross Scholarship (*Fine Art*).—R. C. Blomfield.

L. M. Rothschild Scholarship (*French*).—W. G. W. Jensen.

Mayer de Rothschild Scholarships in Pure Mathematics.—D. C. Belinfante; D. J. Mather.

Sharpey Physiological Scholarship.—J. Diamond (2nd Year).

Shell Postgraduate Studentships in Chemical Engineering.—J. H. Bowen (1st Year); P. B. Trinkle (1st Year); I. Williams (1st Year).

Slade Scholarships.—G. P. McSweeny; R. H. E. Organ; P. S. Schmidt.

Steer Medal and Prize (*Fine Art*).—G. P. McSweeney.

Suckling Memorial Prize (*Anatomy*).—Frances Lefford.

Sir Andrew Taylor Prizes.—Architecture: P. C. Sugar. *Fine Art:* T. Espley.

Henry Tonks Prize (*Fine Art*).—Janet E. M. Barrett.

L. F. Vernon-Harcourt Prize (*Civil Engineering*).—R. V. L. Peters.

Thomas Viola Prize (*Stage Design*).—N. Georgiadis.

Ellen Watson Memorial Scholarship in Applied Mathematics.—D. C. Belinfante.

APPENDIX XI

EXAMINATION RESULTS

FACULTY OF ARTS

B.A. Honours	*1st Class*	*2nd Class*		*3rd Class*	*Total*
		Upper Div.	*Lower Div.*		
Anthropology	—	2	1	—	3
Classics	—	2	5	5	12
English	1	5	11	6	23
French	1	7	12	5	25
Geography	1	5	8	3	17
German	1	3	5	3	12
Greek	—	—	—	1	1
Hebrew	—	1*	—	—	1*
History	4	9	15	1	29
Italian	—	2	—	—	2
Latin	—	—	1	2	3
Philosophy	1	1	2	—	4
Psychology	1	2	2	1	6
Scandinavian Languages	—	1	—	—	1
	10	40*	62	27	139*

B.A. (General)	*1st Division*	*2nd Division*	*3rd Division*	*Total*
	—	2	—	2

B.A. Architecture	*1st Class Honours*	*2nd Class Honours*	*Pass*	*Total*
	2	9	7	18

* One student registered jointly with another College

FACULTY OF ECONOMICS

	1st Class Honours	*2nd Class Honours*		*Pass*	*Total*
		Upper Div.	*Lower Div.*		
B.Sc. (Economics)	—	8	17	2	27

FACULTY OF LAWS

	1st Class Honours	*2nd Class Honours*		*Pass*	*Total*
		Upper Div.	*Lower Div.*		
LL.B.	1	10	30*	16	57*

FACULTY OF SCIENCE

B.Sc. (Special)	*1st Class Honours*	*2nd Class Honours*		*3rd Class Honours*		*Total*
		Upper Div.	*Lower Div.*			
Anatomy	—	1	—	—		1
Botany	1	3	2	—		6
Chemistry	4	9	3	5		21
Geography	—	2	2	2		6
Geology	2	3	1	—		6
Mathematics	4	7	5	2		18
Physics	—	4	15	—		19
Physiology	1	4	6	1		12
Psychology	1	5	—	—		6
Statistics					Pass	
Old Regulations	—		1		—	1
Revised Regulations	—		3	1		4
Zoology	1		2		3	6
	14	38	6 34	11	3	106
B.Sc. (General)	2		7		20	29

FACULTY OF ENGINEERING

	1st Class Honours	*2nd Class Honours*	*Pass Degree*	*Total*
B.Sc. (Engineering)	6	16	21	43
B.Sc. (Engineering) Chemical Engineering	3	1	5	9

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 61 students passed.

* One student registered jointly with another College

APPENDIX XII

BENEFACTIONS AND DONATIONS

The College Committee makes grateful acknowledgment of the following gifts:

AGRICULTURAL RESEARCH COUNCIL

(1) A grant of £463 for research in the Department of Biochemistry for one year from 1 October 1953.

(2) A grant not exceeding £609 for the salary of a technician employed in the Department of Biometry for eighteen months from 1 October 1953 in connection with research on (*a*) the genetics and cytology of European newts, (*b*) parthenogenesis in Lebistes reticulatus, and (*c*) the genetics of developmental rate in Drosophila subobscura.

(3) A grant of £363 for research in the Department of Biochemistry on insect blood.

(4) A grant of £174 for a period of thirteen months from 1 March 1954 for research in the Department of Zoology on the viruses carried by British mosquitoes.

(5) A further grant not exceeding £755 for the continuation of research in the Department of Biochemistry on the biochemistry of lactation, for a period of eighteen months from 1 October 1954.

(6) A further grant not exceeding £383 for genetical studies in the Department of Eugenics, Biometry, and Genetics, on Drosophila subobscura.

ANGLO-IRANIAN OIL COMPANY

A grant of £500 for general research work in the Department of Chemical Engineering.

ANONYMOUS DONOR

A gift of Government securities of a nominal value of £14,500 for the promotion of the study of folk-lore.

BOARD OF TRADE

A grant not exceeding £10,900 for the period September 1953 to September 1956 for research in the Department of Political Economy on the relation of monopoly and competition to innovation in British Industry.

BRITISH ELECTRICAL INDUSTRIES RESEARCH ASSOCIATION

Grants totalling £900 for equipment for research in the Department of Electrical Engineering.

BRITISH EMPIRE CANCER CAMPAIGN

(1) A grant not exceeding £400 for the salary of a technical assistant in the Department of Zoology for the calendar year 1954.

(2) A grant of £375 at the rate of £300 per annum for the period 1 October 1953 to the end of 1954 for research work in cancer in the Department of Zoology.

[We regret that a grant of £690 per annum for the period 1 August 1953 to 31 December 1954 for research in the Department of Chemistry was recorded in our last Report as a grant of £69 per annum.]

Miss Ruth Butler

A gift to the Library of notes and letters connected with Bentham.

Cement and Concrete Association

A gift of equipment for research in the Department of Civil and Municipal Engineering.

Department of Scientific and Industrial Research

A grant not exceeding £3,732, plus the cost of insurance, for four Research Assistants, to work in the Department of Physics on the scattering of positrons by electrons, and the scattering of high energy nucleons by atomic nuclei, for the period 1 October 1954 to 30 September 1956.

Sir Banister Fletcher

A bequest of £1,500 and a collection of slides for the Bartlett School of Architecture.

Arthur Guinness, Son and Company Limited

A gift of £500 over a period of ten years for the Communication Research Centre.

Professor T. G. Hill

A bequest of £3,000 for the provision of a postgraduate scholarship for research in plant physiology, or in plant ecology, and of his residuary estate for the rebuilding fund of the College.

Mrs H. A. Lake Barnett

A further gift of £1,000 for the study of folk-lore.

Medical Research Council

A grant of up to £2,215 to cover the salaries of three research workers and a technician, and expenses, for one year from 27 April 1954, for work in the Department of Psychology on the effects of vitamin B1 deficiency on the disorganization of behaviour under stress.

Ministry of Supply

A grant of not more than £7,700 for research in the Department of Physics for the period 1 July 1953 to 5 September 1954.

Mr A. R. T. Momber

Reversionary bequest of approximately £2,840 for the maintenance of scholarships in science.

Mrs Minnie M. Nathan

A bequest of £100 for the use of the Library.

Nuffield Foundation

(1) A grant of £2,400 over a period of three years for research in the Department of Anatomy and Embryology on electro-physiology of the cerebral cortex.

(2) A further grant of £628 for one year for the continuation of work on child psychology under the direction of Dr R. E. Bonham-Carter.

(3) A grant of £1,400 a year for five years and £700 for apparatus and equipment for a study in the Departments of Physiology and Psychology of skill in heavy manual tasks.

(4) A further grant to a total amount of £7,950 over a period of three years for the continuation of an investigation in the Department of Anatomy and Embryology of proliferation and morphogenesis in the adult.

(5) A grant of £1,500 for equipment for studies in the Department of Chemistry of the mechanism of enzyme action.

(6) A grant of £1,700 over a period of two years for studies in the Department of Botany of the protein content of East African crop plants.

(7) Further grants of £1,350, £1,400, £1,450 and £1,500 for each of four years for the continuation of research on ageing being undertaken by Dr A. Comfort in the Department of Zoology.

ROCKEFELLER FOUNDATION

(1) A grant of approximately £1,071 for research in the Department of Botany in plant physiology.

(2) A grant of $1,525 to enable Professor G. C. Allen, Department of Political Economy, to extend his visit to the Far East in order to renew his acquaintance with scholars, work and conditions in Japan and America.

SHELL PETROLEUM COMPANY LIMITED

A further grant of £60 for the session 1954–55 for geological field work.

MR A. W. STERN

A gift of a collection of books on Abraham Lincoln.

SUDAN GOVERNMENT

A gift for the Flinders Petrie Collection of a selection of stone implements, sherds, etc., from the excavation carried out by Mr A. J. Arkell at Shaheinab in 1949.

TIN RESEARCH INSTITUTE

A grant of £300 per annum for not less than two years from 1 October 1954 for a research fellowship in the Department of Chemistry for investigation of certain aspects of organotin chemistry.

MRS THEDA R. VIOLA

A gift of £5 per annum net for seven years for the provision of a prize or prizes for stage design in the Slade School.

APPENDIX XIII

COLLEGE ACCOUNTS 1953–54

The Accounts for the year 1953–54 which follow on pages 90–97 comprise the Income and Expenditure Account and Balance Sheet, and the subsidiary account for Rehabilitation and Development.

BALANCE SHEET

Features of special interest were:

LIABILITIES

The College General Capital Account was increased by grants totalling £131,181 received from H.M. Treasury to finance the purchase of properties in Gower Street, 44 Cartwright Gardens, 33–35 Torrington Place and Malet Place East Side, and also at Flaxman Terrace.

The Income and Expenditure account shows a credit balance of £13,229, of which £1,333 is reserved for expenditure of a non-recurrent nature upon Social Sciences. The net balance of £11,896 is a gratifying improvement on the deficit balance of £22,401 with which the present quinquennium opened, and has been achieved through the exercise of severe economies in many directions.

Sundry Funds include the College's Reserve Funds amounting to £36,039 and Special Funds of £105,623, a similar figure to that of the preceding year. The College's Reserve Funds include new reserves for specific requirements amounting to £2,641.

ASSETS

The value of the College Freehold Land, Buildings, etc. was increased by the acquisition of seven properties for which Capital Grants were received.

The book value of Investments increased by £14,036 representing the balances of certain Special Funds made available for investment during the year.

Under Current Assets a reduction, as compared with the previous year, of £36,188 was accounted for largely by the utilization of part of the balance of the Ramsay Centenary Appeal Fund for financing the work of the new light storey on the Chemistry Building.

TRUST FUNDS

The College holds Endowments in the form of 164 separate Trust Funds with a total value of over £1,000,000. They yield a gross income of some £46,000.

INCOME AND EXPENDITURE

The Income and Expenditure Account showed a surplus of £7,249, as compared with the surplus of £28,381 in the previous year when special economies were made in order to overtake the deficits to which reference has been made.

The total expenditure of £986,966 was £62,206 greater than in 1952–53. This was to a large extent due to general increases in the cost of services, but it was also due to certain new appointments, normal salary increments, and increased grants made to academic departments for equipment purposes.

Under Departmental and Laboratory Maintenance were included non-recurrent

grants for the purchase of apparatus on a considerably larger scale than in the previous year.

The income of £994,215 exceeded that of the previous year by £41,074. This was mainly accounted for by increases totalling £42,000 in the grants allocated by the Court of the University which rose from £775,000 to £817,000.

The percentages of the expenditure and income under the main classifications in the years 1951–52, 1952–53, and 1953–54 are shown in the following tables:

EXPENDITURE	1951–2 %	1952–3 %	1953–4 %
Salaries and Pensions of Teaching Staff	52·3	49·7	48·5
Departmental Expenses, incl. Library ..	20·7	24·2	25·8
Maintenance of Premises ..	11·8	12·8	13·2
Administration ..	9·7	7·8	7·2
Other	5·5	5·5	5·3
	100·0	100·0	100·0

INCOME	1951–2 %	1952–3 %	1953–4 %
Endowments ..	5·1	4·4	4·2
Donations ..	0·4	0·4	0·3
Grants	78·0	81·3	82·2
Fees	15·0	12·6	11·8
Other	1·5	1·3	1·5
	100·0	100·0	100·0

A summary of the income and expenditure of the College which compares the results in the years 1938–39, 1952–53, and 1953–54 is as follows:

EXPENDITURE	*Thousands of £* 1938–9	1952–3	1953–4
Administration ..	18	72	71
Departmental Maintenance ..	171	684	732
Maintenance of Premises ..	36	118	131
Other	23	51	53
	248	925	987

INCOME	*Thousands of £* 1938–9	1952–3	1953–4
Endowments ..	43	41	41
Grants	103	775	817
Fees	83	119	117
Other	23	18	19
	252	953	994

REHABILITATION AND DEVELOPMENT ACCOUNT

This account records the course of operations upon the rebuilding of the College after damage suffered during the war, and upon the provision of temporary accommodation, of certain new buildings, and their equipment. The account shows in separate sections works completed in the thirteen years up to 31 July 1954 and works in progress.

The various projects are financed mainly by special Capital Grants from the University Grants Committee and by War Damage compensation, but the balance has to be found from College sources. Up to date, 72% has been found from Capital Grants, 24% from War Damage compensation, and 4% from College funds and other sources.

In this account the payments of £1,951,855 for the thirteen years up to 31 July

1954 exceeded the receipts of £1,839,884 by £111,971, which related to expenditure upon:

	£
Completed Projects, balance to be financed	1,747
Projects for which Capital Grants and War Damage compensation claims have been approved and not received as at date of account	42,462
Apparatus for which Capital Grants have been approved and not received as at the date of account	2,101
Projects in anticipation of Capital Grants	11,840
Preparation of Plans for College Development	27,655
Preparation of Plans for Biological Sciences Block	13,362
Chemistry Light Storey, cost to be met from Ramsay Memorial Appeal	10,080
Projects to be financed from College and other funds	2,724
	£111,971

CAPITAL GRANTS

Capital Grants for the year 1953–54 were as follows:

ACQUISITION OF LAND AND PROPERTY	£
Purchase of Warehouse in Flaxman Terrace WC1, to provide accommodation for Library and Department of Town Planning	49,000
Acquisition of Leasehold of 23 Gordon Square	850
Purchase of Leasehold Interest in the Upper Floors of 104 Gower Street	850
Purchase of Lease and Contents of 44 Cartwright Gardens	4,844
Acquisition of Leasehold of 17–18 Gordon Square	1,400
	(56,944)
NEW CONSTRUCTION AND EQUIPMENT	
Repair and Conversion of 5–10 Taviton Street for use as Students' Hostel	56,117
Repair and Conversion of 17–18 Gordon Square	9,987
Conversion of 44 Cartwright Gardens as extension to Bentham Hall	9,682
Alterations in South Wing	6,780
Erection of Biological Sciences Block—Stage 1: demolition and building work	265,108
North and South Junctions—modifications to ventilating system of South Junction	600
New Physics Building—Stage 1: equipment and additional building work	45,928
Alterations to Department of Medical Sciences	3,322
Provision of Fire Escape in Department of Physics	1,649
Repair and Conversion of 11 Chester Terrace, Regent's Park, for use as Residence for the Provost	6,400
Alterations to Laboratories in Chemistry Department	1,800
	(407,373)
	£464,317

SCHOLARSHIPS AND PRIZES

Expenditure upon these awards amounted to £9,276 3*s.* 9*d.* in 1953–54. Awards were made as under:

	Undergraduate			*Postgraduate*		
	£	*s.*	*d.*	£	*s.*	*d.*
From Endowments	2,459	16	8	1,397	16	11
,, Donations and Subscriptions	57	12	0	2,638	17	9
,, General Income	707	0	5	1,212	12	0
,, General Income: Exhibition Bursaries and special fee remissions	616	13	0	185	15	0
	£3,841	2	1	£5,435	1	8

1952–53 £	EXPENDITURE	£	£	1953–54 £
	ADMINISTRATION			
47,228	Salaries	46,927		
3,088	Payments for Superannuation	2,623		
17,932	Advertising, Printing, Stationery, Postage, and Telephone	18,170		
2,450	Other Expenses (including Audit and Legal Fees)	3,207		
(70,698)				70,927
	DEPARTMENTAL MAINTENANCE			
422,750	Salaries of Teaching Staff	440,144		
37,251	Payments for Superannuation	38,848		
113,240	Departmental Wages (including Superannuation	122,928		
76,926	Departmental and Laboratory Maintenance	93,110		
33,436	Libraries	37,402		
(683,603)				732,432
	MAINTENANCE OF PREMISES			
	Rates and Insurance	21,457		
36,036	Heat, Light, Water, and Power	39,527		
46,578	Ordinary Repairs and General Maintenance of Buildings	49,941		
17,983	Wages of Porters and Attendants (including Superannuation)	19,608		
(118,149)				130,533
	MISCELLANEOUS EXPENDITURE			
4,873	Pensions for Retired Members of Staff	5,008		
148	Examiners Fees	120		
2,547	Interest on Overdrafts, Mortgages, etc.	2,319		
9,752	Scholarships and Prizes	9,276		
10,647	Grants to Students' Societies	10,368		
	Deficits on Income and Expenditure Accounts for Halls of Residence, Refectories, etc.:			
417	Staff Accommodation	391		
5,000	Refectory—amount written off	1,553		
	OTHER EXPENDITURE	£		
1,802	Salaries of Wardens of Halls of Residence	1,543		
39	Payments for Superannuation	25		
			1,568	
	Rent and Other Payments for Use of Buildings:			
2,484	Halls of Residence	2,954		
2,525	Other Buildings	2,409		
			5,363	
8,981	Other Items		10,924	
(48,495)				46,890
3,815	CAPITAL EXPENDITURE MET FROM INCOME			3,734
	ALLOCATIONS TO RESERVES			
—	Electric Wiring Replacement		1,200	
—	Seamen's Hospital Mortgage Redemption		1,250	
				2,450
924,760				986,966
28,381	BALANCE OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR			7,249
£953,141				£994,215

ACCOUNT FOR YEAR ENDED 31 JULY 1954

1952–53 £	INCOME	£	1953–54 £
	ENDOWMENTS		
40,888	Income appropriated to meet expenditure for particular purposes specified by Trust	40,891	
640	Income appropriated to meet expenditure on general purposes (Bawden Fund)	640	
(41,528)			41,531
	DONATIONS AND SUBSCRIPTIONS: Appropriated for:		
1,106	Special Purposes	892	
3,156	Scholarships and Bursaries	2,697	
(4,262)			3,589
775,000	GRANT FROM UNIVERSITY COURT		817,000
	FEES		
118,466	General	115,661	
716	Examination and Registration Fees	724	
355	Exhibition Bursaries and Special Fee Remissions	564	
(119,537)			116,949
1,974	CONTRIBUTIONS FOR SERVICES RENDERED		1,250
	SURPLUS FROM INCOME AND EXPENDITURE ACCOUNTS FOR HALLS OF RESIDENCE, REFECTORIES, ETC.		
3,468	College Properties		4,306
7,372	OTHER ITEMS		9,590
£953,141			£994,215

LIABILITIES, CAPITAL ACCOUNT, RESERVES AND OTHER FUNDS

1952–53 £		£	£	1953–54 £
	COLLEGE GENERAL CAPITAL ACCOUNT		893,508	
	Add Capital Grants:	£		
	100–102 Gower Street	500		
	104 Gower Street	476		
	106–112 Gower Street	43,448		
	44 Cartwright Gardens	4,844		
	Malet Place, East Side, and 33–35 Torrington Place	32,913		
	Flaxman Terrace, 143½ Euston Road, and 1 Inwood Place	49,000	131,181	
893,509			1,024,689	
6,813	*Less* Bentham Hall Amortization		9,084	
886,696				1,015,605
41,322	REDEMPTION FUNDS			49,169
	INCOME AND EXPENDITURE ACCOUNT			
	Balance at 1 August 1953			
	Social Science Account	1,333		
	General	4,647	5,980	
	Add Balance for the year ended 31 July 1954		7,249	
	Balance at 31 July 1954			
	Social Science Account	1,333		
	General	11,896	13,229	
5,980				13,229
198,021	SUNDRY FUNDS			226,504
1,132,019				1,304,507
222,068	LOANS			214,349
111,403	CURRENT LIABILITIES			68,677
1,456,490				1,587,533
1,043,089	TRUST FUNDS: Liabilities and Capital			1,078,072
£2,508,579				£2,665,605

We have examined the above Balance Sheet as at 31 July 1954 and
opinion and to the best of our information and according to the
drawn up and in accordance with the books of the College.

3 Frederick's Place, Old Jewry, London EC2
30 November 1954

ASSETS AND REHABILITATION AND DEVELOPMENT EXPENDITURE

1952–53 £				1953–54 £	£
1,118,973	COLLEGE FREEHOLD LANDS, BUILDINGS, FURNITURE, LIBRARY				1,245,647
	COLLEGE LEASEHOLD PROPERTY		£		
13,542	37 and 38 Nevern Square		14,754		
185	*Less* Leasehold Depreciation		214		
(13,357)				14,540	
22,710	Bentham Hall (31–44 Cartwright Gardens)		27,572		
6,813	*Less* Amortization		9,084		
(15,897)				18,488	
1,922	11 Chester Terrace (Lease expiring 5 July 1966)			1,447	
(31,176)					34,475
1,150,149					1,280,122*
	REHABILITATION AND DEVELOPMENT ACCOUNT				
103,749	Payments, less receipts to date, on account of Capital Works in Progress, Deferred Expenditure, and Expenditure on Reconstruction of Properties damaged by Enemy Action				111,971*
	**The values at which these assets appear in the Balance Sheet will be subject to adjustment on settlement of War Damage Claims for properties destroyed and damaged.*				
	INVESTMENTS				
91,129	General College and Redemption Funds			105,165	
13,000	*Less* Depreciation			7,000	
(78,129)	[*Market Value at 31 July 1954 £98,016*]				98,165
133,463	CURRENT ASSETS				97,275
1,465,490					1,587,533
1,043,089	TRUST FUNDS: Assets				1,078,072
£2,508,579					£2,665,605

relative Income and Expenditure Accounts. We report that in our explanations given to us, the aforementioned Accounts are properly

[Signed] PRICE WATERHOUSE & CO.
Chartered Accountants

PAYMENTS

Item	Project	1941–53 £	1953–54 £	Total £
	COMPLETED PROJECTS as at 1 August 1953	319,310	—	319,310
	PROJECTS COMPLETED DURING THE YEAR			
1	Chemistry Crystallography Laboratory	5,328	—	5,328
2	Office Equipment and Furniture	7,115	108	7,223
3	Gordon Street Cycle Shed and Battery House	1,691	—	1,691
4	Egyptology Collection	13,675	—	13,675
5	Botany New Laboratory	10,891	—	10,891
6	Miscellaneous Minor Works	6,745	1,196	7,941
7	Furniture for New Members of Staff and for New Accommodation	2,075	—	2,075
8	Strengthening Floors in Foster Court	519	104	623
9	College Heating—Installation of New Boilers	7,323	514	7,837
10	Lift Repairs in Physiology	972	—	972
11	Psychology Animal House	796	—	796
12	28–29 Cartwright Gardens—Repair of Back Walls	5,548	—	5,548
13	Accommodation for Scandinavian Studies in Basement of Main Building	156	4	160
14	Rectifier for Night Supply of Direct Current	—	2,767	2,767
15	17–18 Gordon Square—Compensation for Surrender of Lease	1,400	—	1,400
16	104 Gower Street—Compensation for Surrender of Lease	850	—	850
17	Physics Department Fire Escape	—	1,435	1,435
18	Botany Department Greenhouse 1951–52	—	341	341
19	Superintendent of Works Office	—	13	13
	Total Completed Works	384,394	6,482	390,876
	WORKS IN PROGRESS			
20	Preparation of Plans for Reconstruction of College	30,011	5,948	35,959
21	Reconstruction of Main Building (incl. North and South Junctions)	423,847	81,088	504,935
22	Refectory Equipment	20,038	13	20,051
23	Reorganisation of College Electricity System	159,254	35	159,289
24	New Boilers for Chemistry	10,032	—	10,032
25	Chemistry Light Storey	1,472	42,765	44,237
26	Arrears of Maintenance	53,001	4,017	57,018
27	Animal House—Stage II	569	—	569
28	Electronic Workshop	3,679	804	4,483
29	Botany Greenhouse	447	—	447
30	War Damage Repairs	43,992	—	43,992
31	Furniture of New Library	24,469	324	24,793
32	Physics Department Reinstatement	2,694	—	2,694
33	Telephone Switchboard	6,715	76	6,791
34	Hostels Development Scheme	20	—	20
35	New Physics Building	120,642	96,631	217,273
36	Squash Court Site	17	181	198
37	Preparation of Plans for College Development	19,384	8,271	27,655
38	Temporary Accommodation	8,241	—	8,241
39	Alterations and Equipment for 94–98 Gower Street and Malet Place, East Side	7,023	5	7,028
40	Equipment for Main Building (incl. North and South Junctions)	36,975	18,764	55,739
41	Chemistry Department Benches and Shelving	1,866	115	1,981
42	Alterations in Biochemistry	1,396	—	1,396
43	114–116 Gower Street Adaptation	1,798	442	2,240
44	Gower Street Front	6,518	—	6,518
45	Bentham Hall—Alterations	28,599	1,629	30,228
46	,, ,, —Furnishings	10,888	758	11,646
47	Departmental Apparatus and Equipment	77,595	4,625	82,220
48	Biological Sciences Block	67,306	19,733	87,039
49	Long Vacation Moves 1951–52	1,955	217 (Cr)	1,738
50	New Engineering Building	5	—	5
51	Zoology Research Rooms and Animal House	4,542	—	4,542
	Carried forward	1,559,384	292,489	1,851,873

RECEIPTS

Item	War Damage £	College Funds £	Miscellaneous Sources £	Capital Grants £	Total £	Balance £
	38,530	22,654	9,701	247,148	318,033	1,277
1	—	1,923	—	3,393	5,316	12
2	—	—	—	7,224	7,224	1 (Cr)
3	—	—	—	1,645	1,645	46
4	409	—	—	13,000	13,409	266
5	—	—	—	10,848	10,848	43
6	—	—	—	7,940	7,940	1
7	—	—	—	2,000	2,000	75
8	—	—	—	623	623	—
9	—	—	—	7,837	7,837	—
10	—	—	—	972	972	—
11	—	—	—	796	796	—
12	—	—	—	5,533	5,533	15
13	—	—	—	160	160	—
14	—	188	—	2,579	2,767	—
15	—	—	—	1,400	1,400	—
16	—	—	—	850	850	—
17	—	—	—	1,435	1,435	—
18	—	—	341	—	341	—
19	—	—	—	—	—	13
	38,939	24,765	10,042	315,383	389,129	1,747
20	—	—	—	29,128	29,128	6,831
21	359,259	—	—	137,445	496,704	8,231
22	—	3,405	—	16,583	19,988	63
23	—	—	—	152,720	152,720	6,569
24	—	1,000	—	8,778	9,778	254
25	—	—	34,157	—	34,157	10,080
26	—	3,602	1,378	49,374	54,354	2,664
27	—	—	—	—	—	569
28	—	—	—	4,428	4,428	55
29	—	—	—	—	—	447
30	44,112	—	—	—	44,112	120 (Cr)
31	—	—	—	23,000	23,000	1,793
32	—	—	—	2,609	2,609	85
33	—	—	—	6,791	6,791	—
34	—	—	—	—	—	20
35	—	—	—	204,894	204,894	12,379
36	—	—	—	—	—	198
37	—	—	—	—	—	27,655
38	—	—	—	7,231	7,231	1,010
39	—	—	—	7,001	7,001	27
40	—	—	—	55,567	55,567	172
41	—	—	—	1,941	1,941	40
42	—	—	—	1,321	1,321	75
43	—	—	—	2,416	2,416	176 (Cr)
44	—	—	—	—	—	6,518
45	—	—	—	30,227	30,227	1
46	—	—	646	11,000	11,646	—
47	—	2,460	—	76,923	79,383	2,837
48	—	—	—	71,718	71,718	15,321
49	—	—	—	1,282	1,282	456
50	—	—	—	—	—	5
51	—	—	—	4,503	4,503	39
	442,310	35,232	46,223	1,222,263	1,746,028	105,845

PAYMENTS (continued)

Item	*Project*	1941–53 £	1953–54 £	*Total* £
	Brought forward	1,559,384	292,489	1,851,873
52	Carpets, Floor Coverings, and Repairs	9,066	1,430	10,496
53	Equipment and Furniture for Foster Court	4,472	2,888	7,360
54	Observatory—Foundations, Equipment and Library Building	7,215	1,074	8,289
55	Sundry Works—Departments of Physiology, Biochemistry, Pharmacology, and Biophysics	33	2,868	2,901
56	Electricity Sub-Station, 88A Gower Street	1,571	383	1,954
57	General Library Heating	334	903	1,237
58	Campbell Hall—Alterations	7,719	26,112	33,831
59	Campbell Hall—Furnishings	724	12,216	12,940
60	Chemistry Department Alterations	84	793	877
61	17–18 Gordon Square—Alterations, Equipment, and Furnishings	40	8,980	9,020
62	Great Hall Site	413	—	413
63	44 Cartwright Gardens—Conversion	—	3,603	3,603
64	South Wing—Conversions	—	759	759
65	11 Chester Terrace—Alterations, Redecorations, and Furnishings	—	6,250	6,250
66	Miscellaneous Works in Progress	38	14	52
		£1,591,093	£360,762	£1,951,855

Receipts up to 31 July 1953

RECEIPTS (continued)

Item	*War Damage* £	*College Funds* £	*Miscellaneous Sources* £	*Capital Grants* £	*Total* £	*Balance* £
	442,310	35,232	46,223	1,222,263	1,746,028	105,845
52	—	—	—	10,346	10,346	150
53	—	—	—	7,212	7,212	148
54	—	—	—	8,193	8,193	96
55	—	—	—	2,851	2,851	50
56	—	—	—	1,914	1,914	40
57	—	—	—	1,203	1,203	34
58	—	—	—	33,831	33,831	—
59	—	—	—	12,810	12,810	130
60	—	—	—	874	874	3
61	—	—	—	8,381	8,381	639
62	—	—	—	—	—	413
63	—	—	96	—	96	3,507
64	—	—	—	—	—	759
65	—	—	—	6,145	6,145	105
66	—	—	—	—	—	52
	£442,310	£35,232	£46,319	£1,316,023	£1,839,884	£111,971
	£369,387	*£35,044*	*£11,079*	*£1,071,834*	*£1,487,344*	*£103,748*

Printed by Taylor & Francis Ltd, Red Lion Court, Fleet Street